

A47 North Tuddenham to Easton Dualling

Scheme Number: TR010038

Volume 2 **2.8 Drainage and Surface Water Plans**

APFP Regulations 5(2)(o) and 5(4)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

October 2021

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009**

The A47 North Tuddenham to Easton
Development Consent Order 202[x]

DRAINAGE AND SURFACE WATER PLANS

Regulation Number:	5(2)(o) and 5(4)
Planning Inspectorate Scheme Reference	TR010038
Application Document Reference	TR010038/APP/2.8
Author:	A47 North Tuddenham to Easton Dualling Project Team, Highways England

Version	Date	Status of Version
Rev. 0	March 2021	Application Issue
Rev.1	October 2021	Deadline 3

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1 INTRODUCTION

- 1.1.1 These Drainage and Surface Water Plans (these “Plans”) relate to an application made by Highways England (the “Applicant”) to the Secretary of State of Transport, via the Planning Inspectorate (the “Inspectorate”) under section 37 of the Planning Act 2008 (the “2008 Act”) for a Development Consent Order (DCO). If made, the DCO would grant consent for the A47 North Tuddenham to Easton dualling scheme (the “Scheme”).
- 1.1.2 The Scheme aims to relieve congestion, reduce journey times, encourage economic growth and improve our customers’ experience along the section of the A47 between North Tuddenham and Easton, west of Norwich, with a new dual carriageway running south of the existing A47 at Hockering and to the north of the existing A47 at Honingham. A detailed description of the Scheme can be found in Chapter 2 ‘The Proposed Scheme’ of the Environmental Statement (ES) (**TR010038/APP/6.1**). These Plans cover the Scheme in its entirety.
- 1.1.3 These Plans comprise part of the suite of application documentation and is included in the application for a DCO in compliance with Regulations 5(2)(j) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the “2009 Regulations”), which require:
- 5(2)(o) “any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping”.*
- 1.1.4 These Plans are also being submitted under Regulation 5(4) of the 2009 Regulations which states:
- 5(4) “where a plan comprises three or more separate sheets a key plan must be provided showing the relationship between the different sheets”.*
- 1.1.5 As these Plans are part of the application documentation, they should be read alongside and are informed by the other application documentation. In particular, these Plans should be read alongside Schedule 1 of the Draft DCO (**TR010038/APP/3.1**), the Works Plans (**TR010038/APP/2.4**) and the Engineering Drawings and Sections (**TR010038/APP/2.7**).

2 DEADLINE 3 UPDATE

- 2.1.1 The Key Plan and drawing sheets 9 and 14 have been updated to reflect the below changes to the Scheme design. The changes to the design and limits of deviation all remain within land allocated for permanent acquisition to deliver the Scheme:
- Alteration of the proposed existing A47 and realigned Taverham Road junction to remove any permanent works within land parcel 14/6a, in response to commitments in RR-006, RR-006 and RR-006 in the Applicant’s Responses to the Relevant Representations (**REP1-013**).

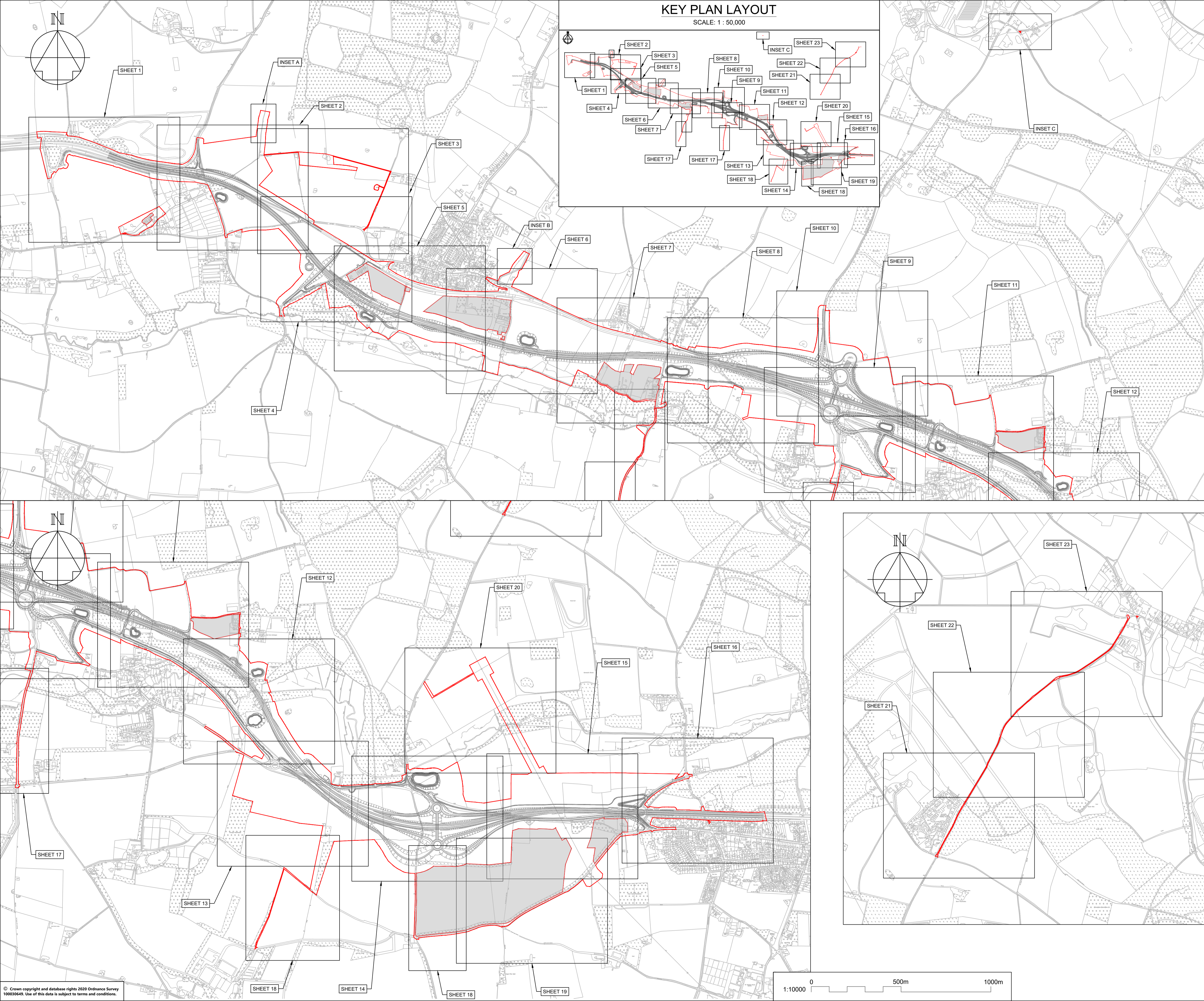
- Illustrate the change between the 3m wide RB1 byway connection to a 2m wide cycle only along the south side of the existing A47, in response to commitments in RR-037.59 in the Applicant's Responses to the Relevant Representations (**REP1-013**).

3 SCHEDULE OF PLANS IN THIS APPLICATION DOCUMENT

Document Title	DCO Document Number	Drawing Number	Rev
Drainage and Surface Water Plans, Regulation 5(4) – Key Plan	TR010038/APP/2.8(A)	HE551489-GTY-LSI-000-DR-CH-37000	C02
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 1 of 23	TR010038/APP/2.8(B)	HE551489-GTY-LSI-000-DR-CH-37001	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 2 of 23	TR010038/APP/2.8(C)	HE551489-GTY-LSI-000-DR-CH-37002	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 3 of 23	TR010038/APP/2.8(D)	HE551489-GTY-LSI-000-DR-CH-37003	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 4 of 23	TR010038/APP/2.8(E)	HE551489-GTY-LSI-000-DR-CH-37004	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 5 of 23	TR010038/APP/2.8(F)	HE551489-GTY-LSI-000-DR-CH-37005	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 6 of 23	TR010038/APP/2.8(G)	HE551489-GTY-LSI-000-DR-CH-37006	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 7 of 23	TR010038/APP/2.8(H)	HE551489-GTY-LSI-000-DR-CH-37007	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 8 of 23	TR010038/APP/2.8(I)	HE551489-GTY-LSI-000-DR-CH-37008	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 9 of 23	TR010038/APP/2.8(J)	HE551489-GTY-LSI-000-DR-CH-37009	C02
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 10 of 23	TR010038/APP/2.8(K)	HE551489-GTY-LSI-000-DR-CH-37010	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 11 of 23	TR010038/APP/2.8(L)	HE551489-GTY-LSI-000-DR-CH-37011	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 12 of 23	TR010038/APP/2.8(M)	HE551489-GTY-LSI-000-DR-CH-37012	C01

Document Title	DCO Document Number	Drawing Number	Rev
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 13 of 23	TR010038/APP/2.8(N)	HE551489-GTY-LSI-000-DR-CH-37013	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 14 of 23	TR010038/APP/2.8(O)	HE551489-GTY-LSI-000-DR-CH-37014	C02
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 15 of 23	TR010038/APP/2.8(P)	HE551489-GTY-LSI-000-DR-CH-37015	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 16 of 23	TR010038/APP/2.8(Q)	HE551489-GTY-LSI-000-DR-CH-37016	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 17 of 23	TR010038/APP/2.8(R)	HE551489-GTY-LSI-000-DR-CH-37017	C02
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 18 of 23	TR010038/APP/2.8(S)	HE551489-GTY-LSI-000-DR-CH-37018	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 19 of 23	TR010038/APP/2.8(T)	HE551489-GTY-LSI-000-DR-CH-37019	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 20 of 23	TR010038/APP/2.8(U)	HE551489-GTY-LSI-000-DR-CH-37020	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 21 of 23	TR010038/APP/2.8(V)	HE551489-GTY-LSI-000-DR-CH-37021	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 22 of 23	TR010038/APP/2.8(W)	HE551489-GTY-LSI-000-DR-CH-37022	C01
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KEY PLAN LAYOUT

SCALE: 1 : 50,000

NOTES

Purpose of use
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Development Consent Order Number / Document
TR010038/APP/2.8(A)

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
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KEY TO SYMBOLS

- ORDER LIMITS
- AREA NOT INCLUDED IN THE ORDER LIMITS
- SCHEME DESIGN

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPH	JHar	JHar
P03	07/12/20	DESIGN AMENDMENTS	AKno	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRH	JHar	MR
P06	10/03/21	DCO SUBMISSION	RO	MR	MR
C01	10/03/21	DCO SUBMISSION	RO	MR	MR
P07	01/10/21	DCO DEADLINE 3		MR	MR
C02	01/10/21	DCO DEADLINE 3		MR	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DULLING

PROJECT STAGE
PCF STAGE 4

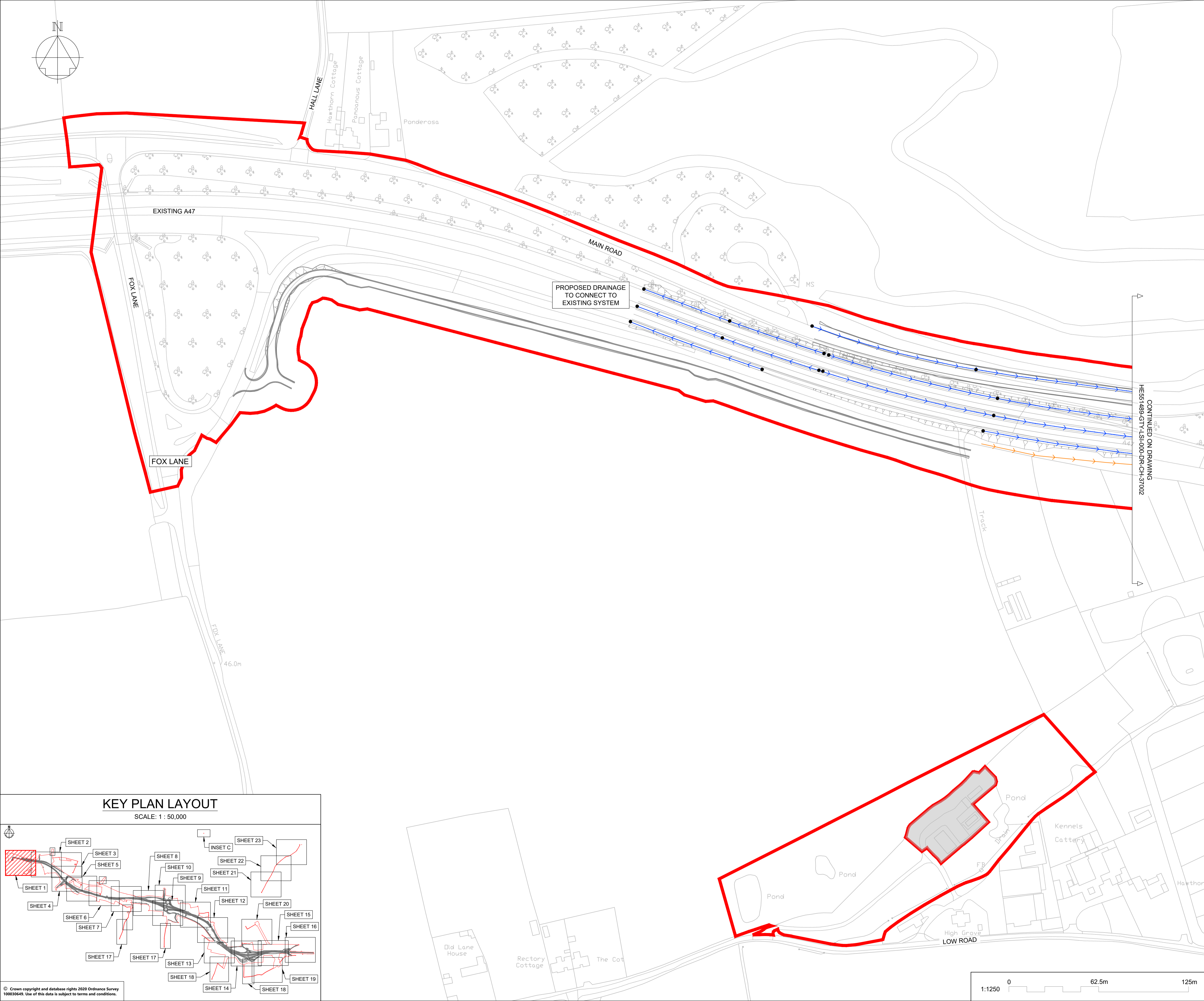
DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) KEY PLAN

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
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- COMBINED CARRIER & FILTER DRAIN
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- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
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- STRUCTURAL DECK DRAINAGE
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P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER

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PROJECT TITLE

A7 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 1 OF 23

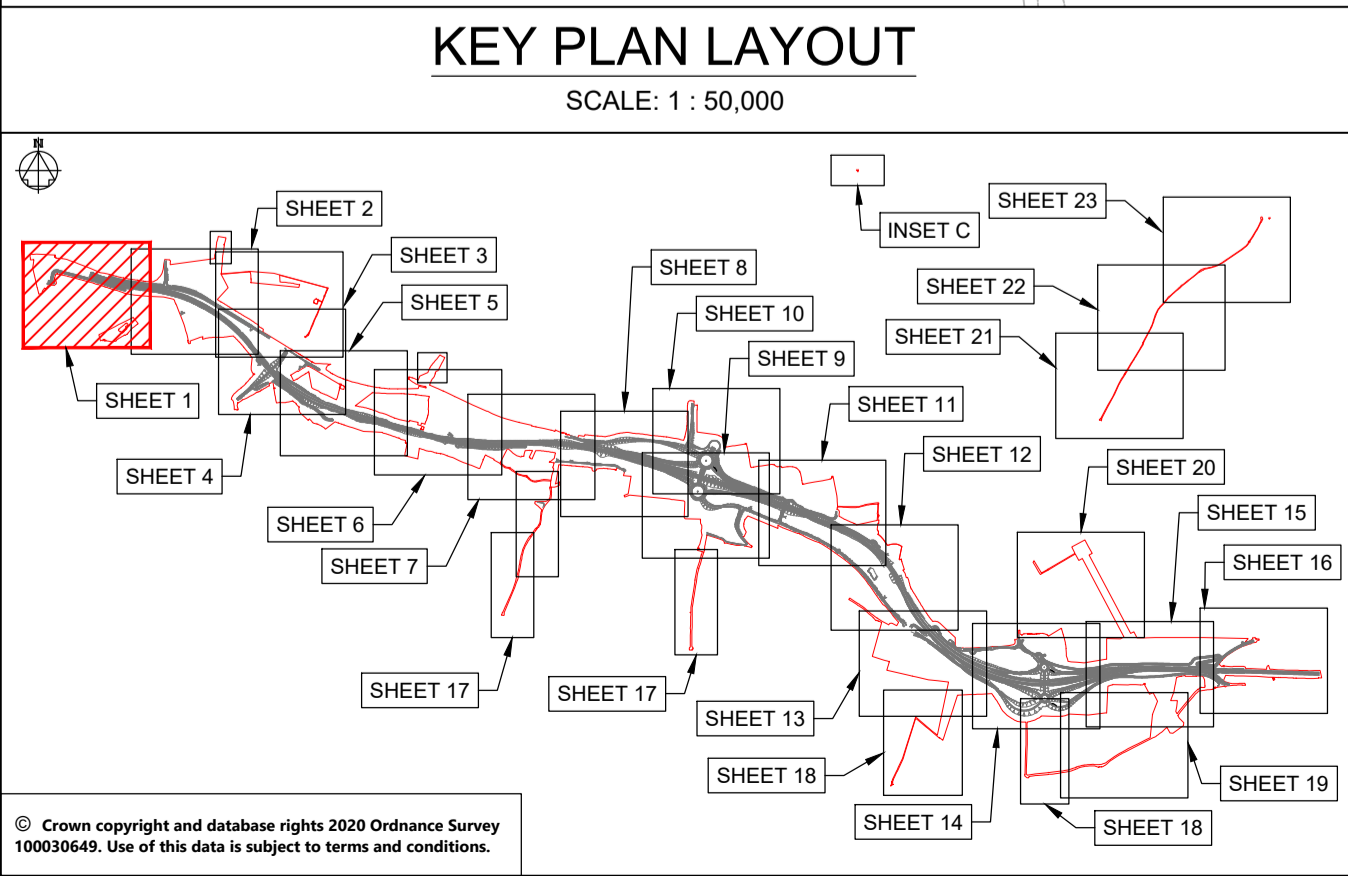
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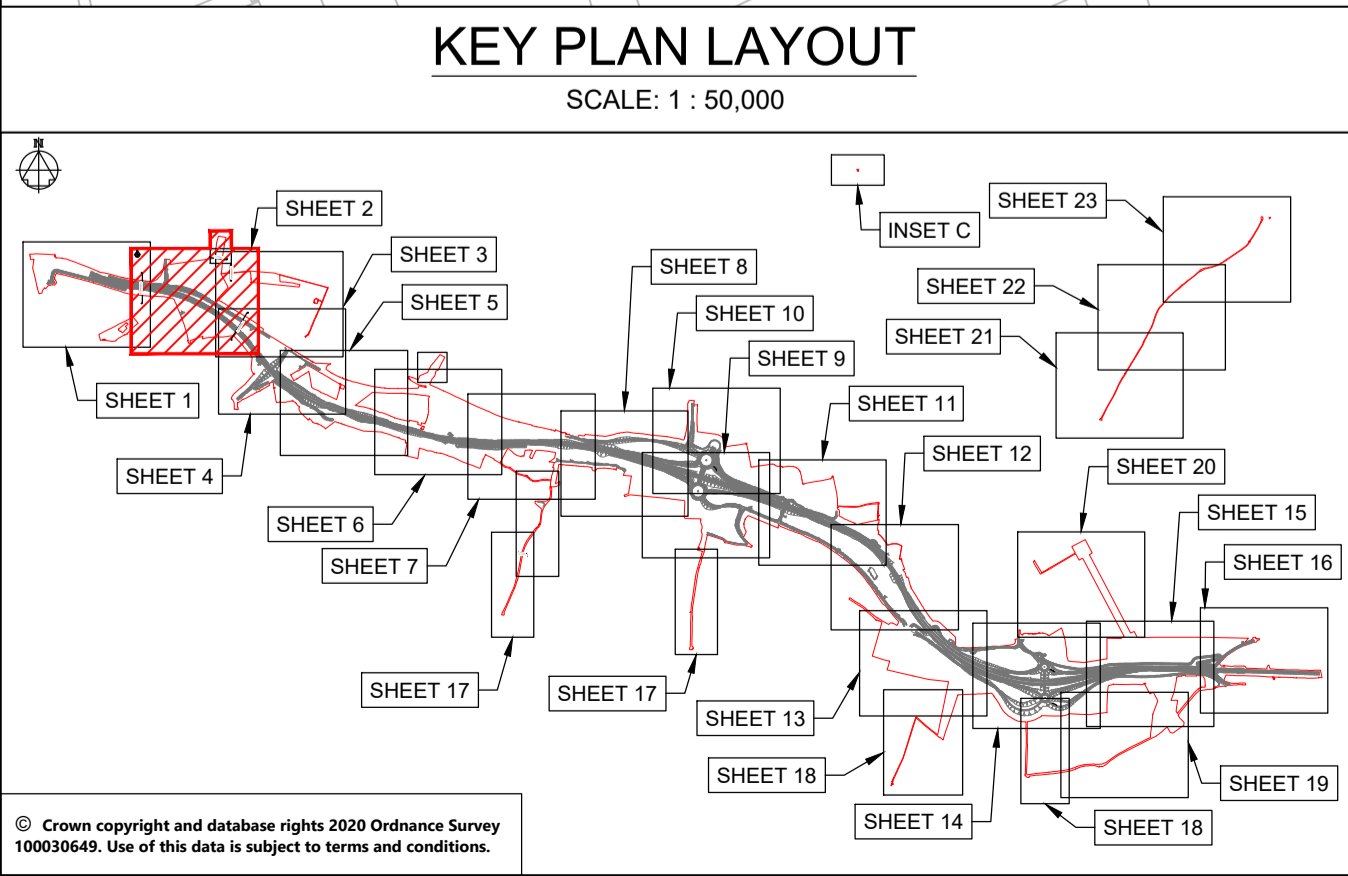
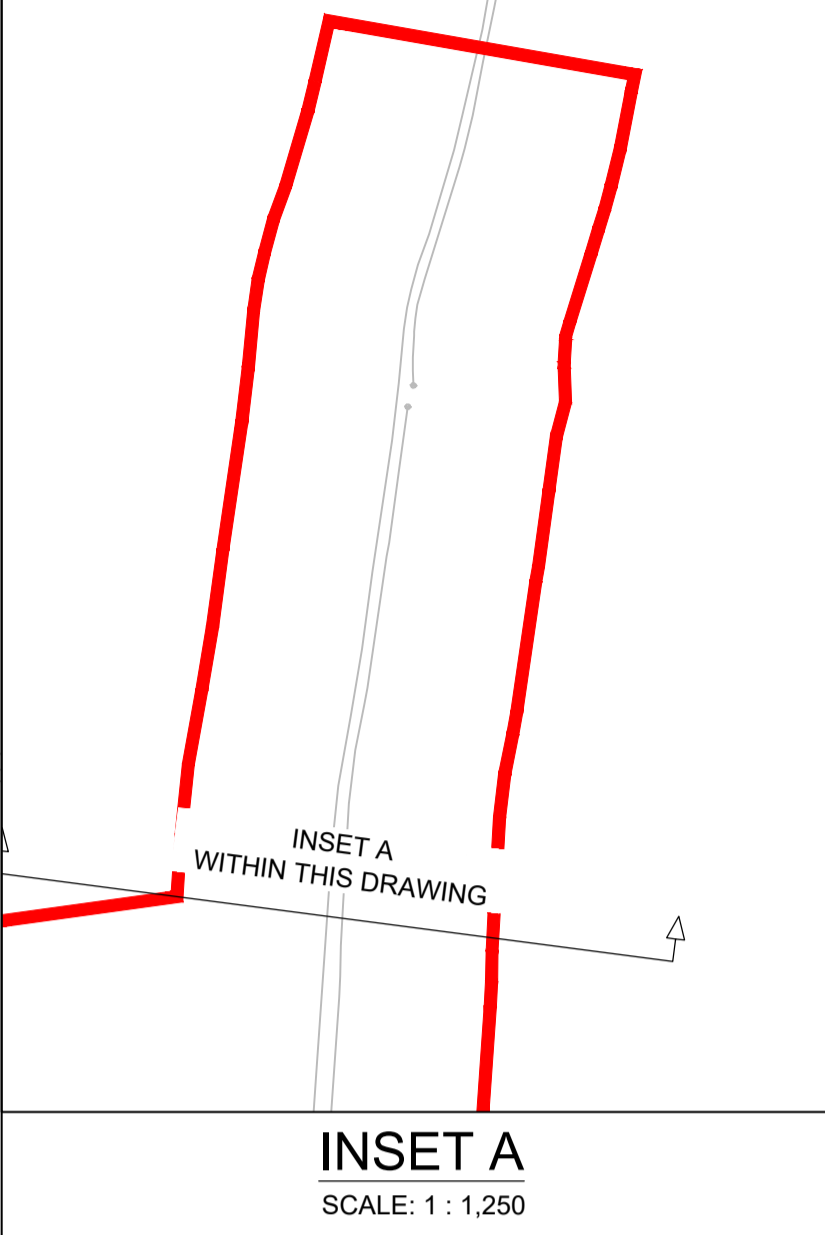
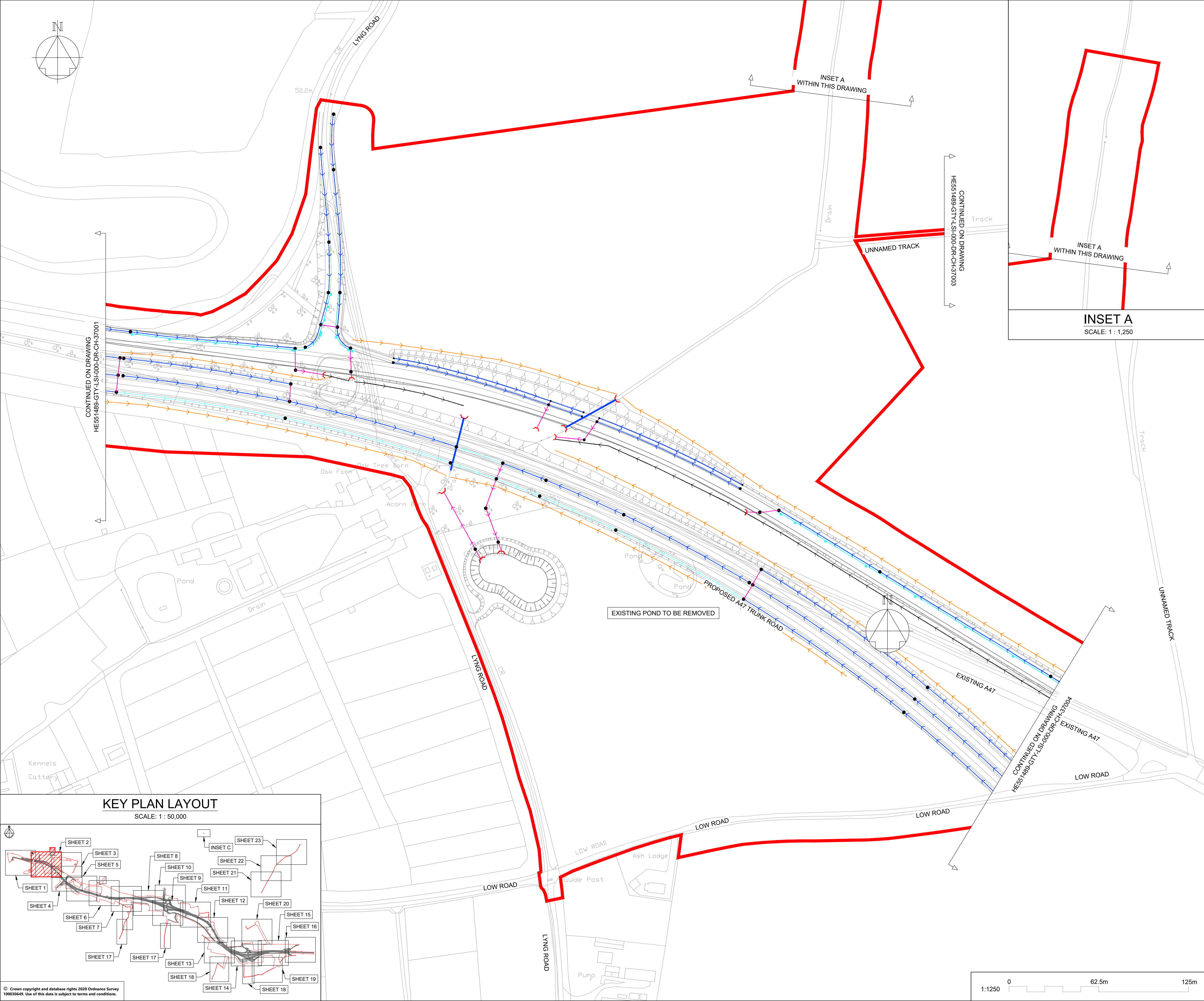
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EASTON DULLING**

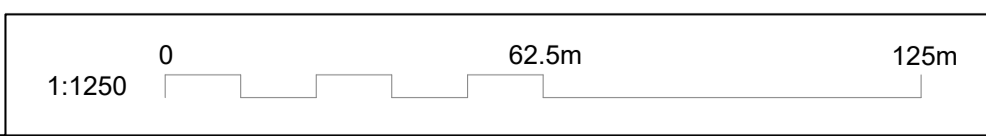
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DRAWING TITLE
**DRAINAGE AND SURFACE WATER PLANS
REGULATIONS 5(4)
SHEET 2 OF 23**

SUITABILITY
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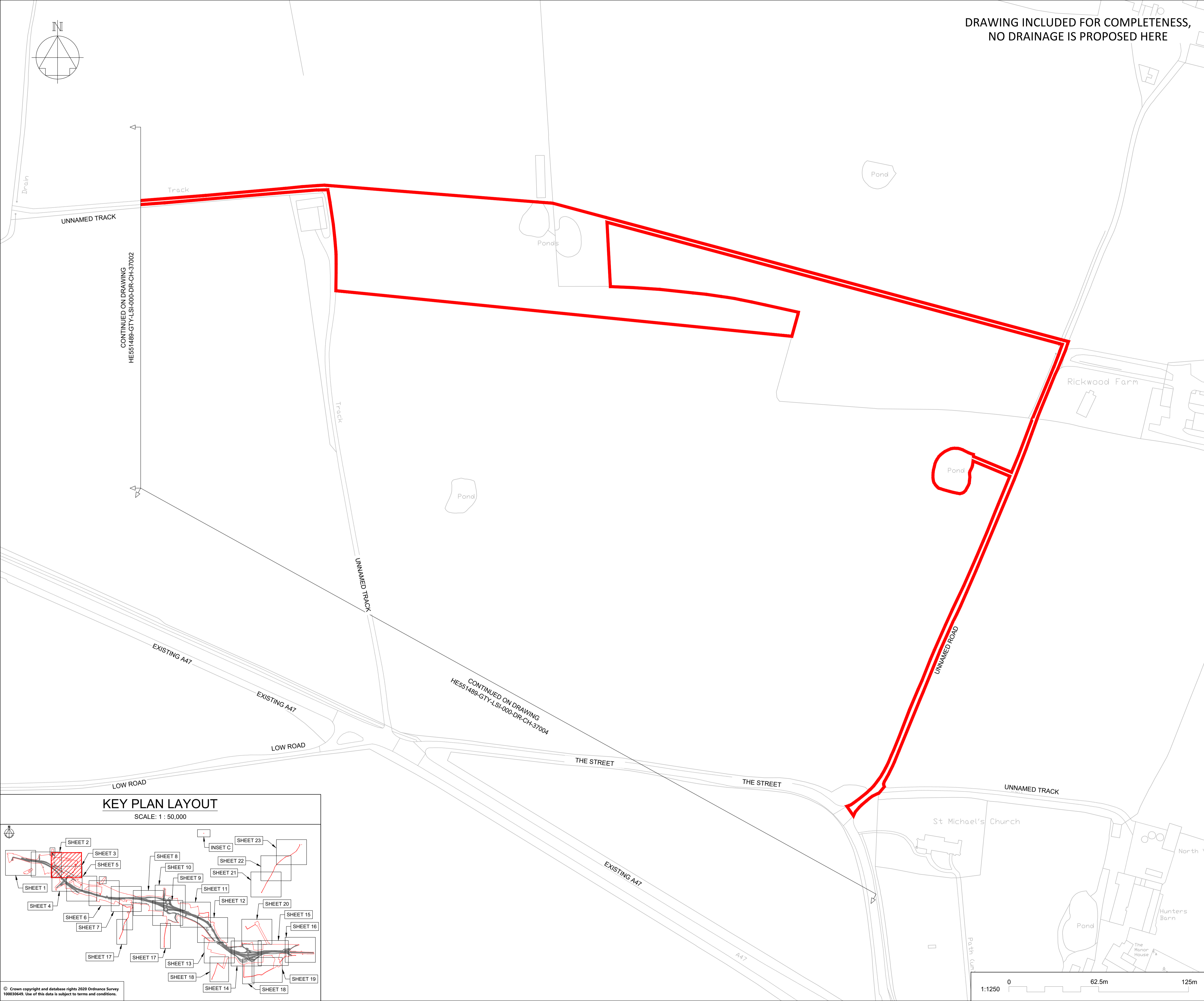
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DESIGNER
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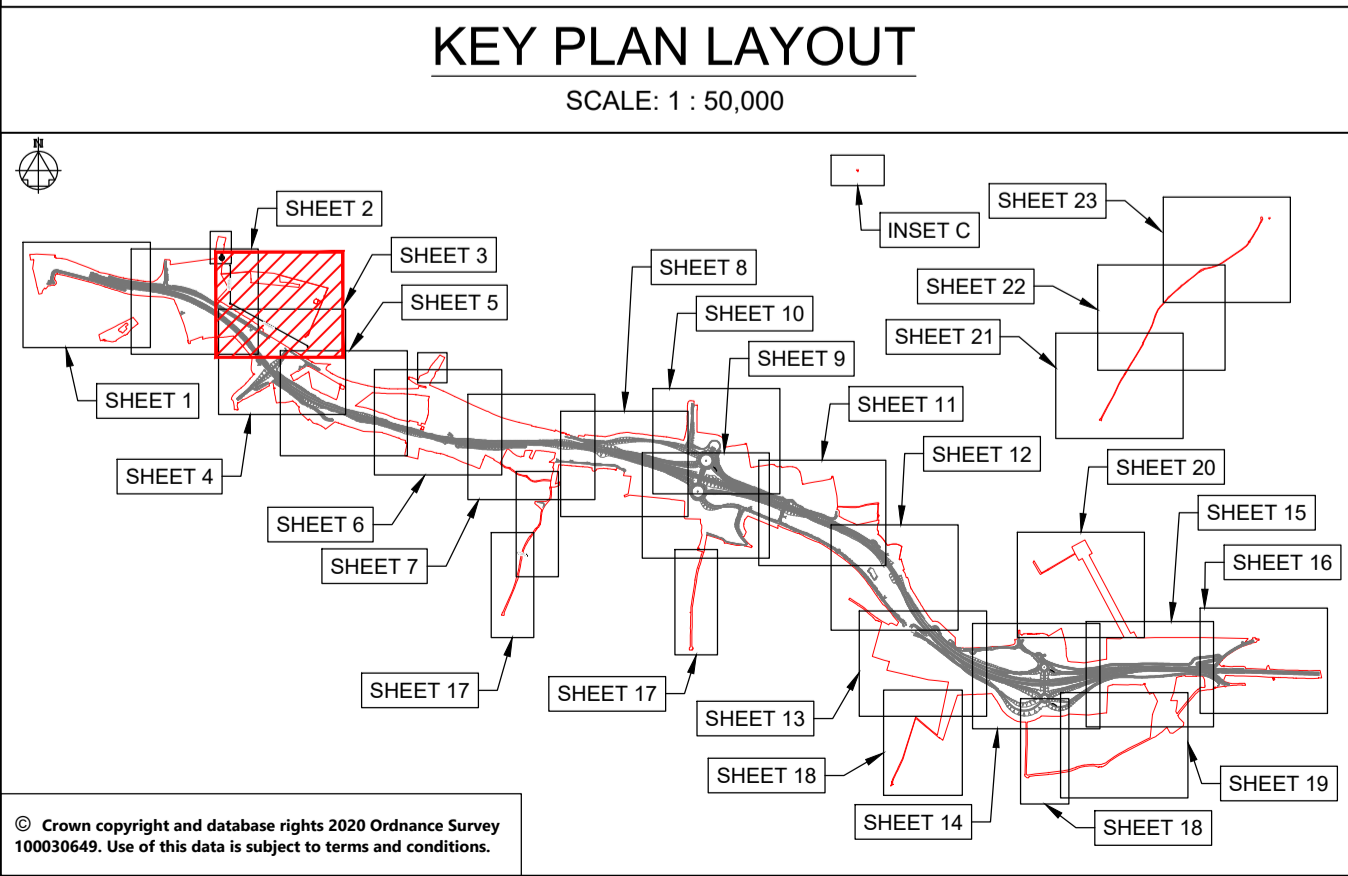
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**DRAINAGE AND SURFACE WATER PLANS
REGULATIONS 5(4)
SHEET 3 OF 23**

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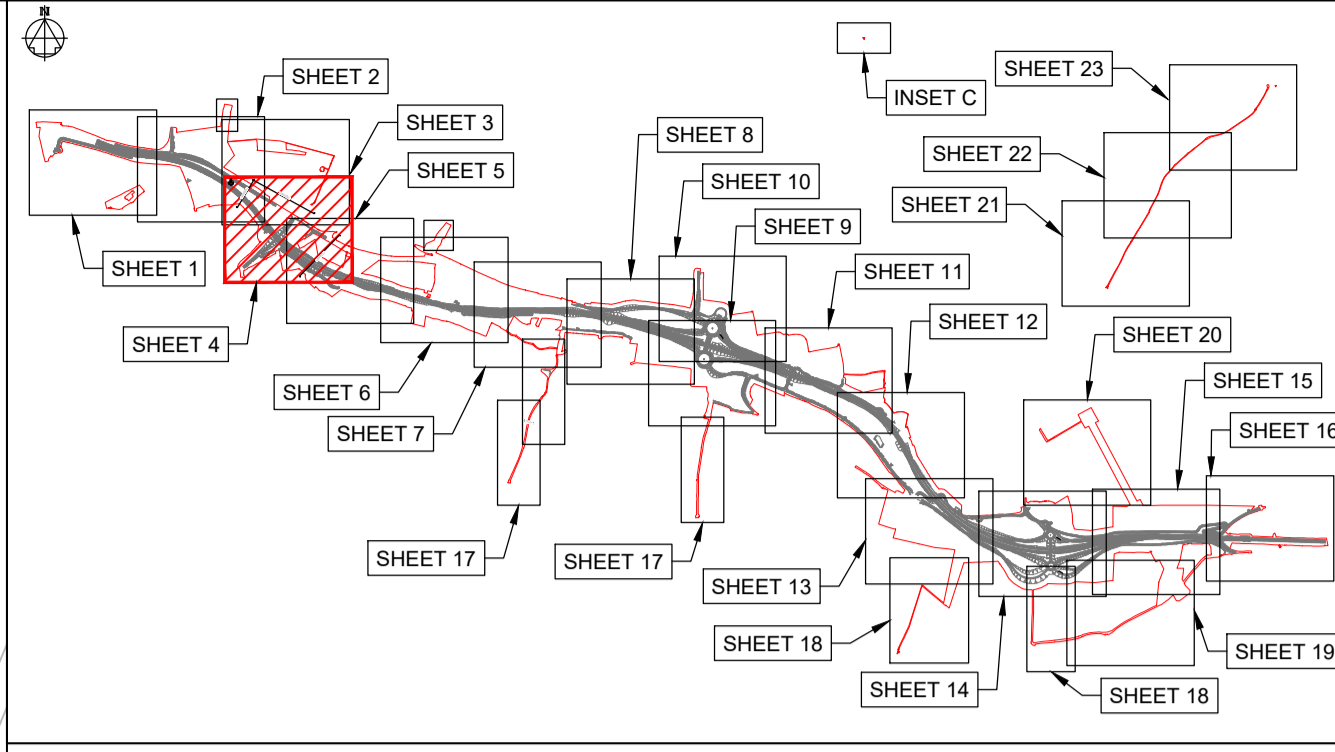
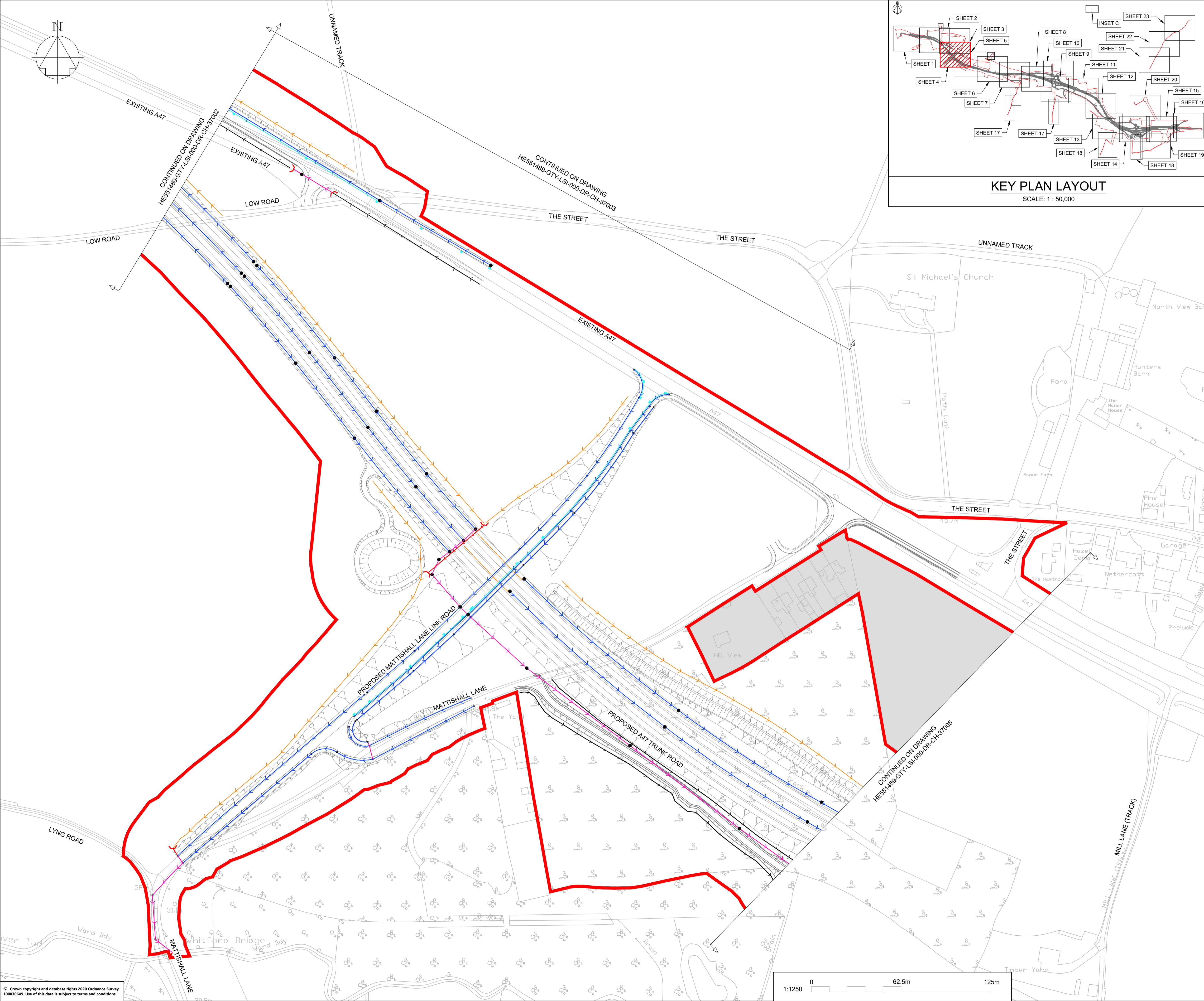
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KEY PLAN LAYOUT
SCALE: 1 : 50,000

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Development Consent Order Number / Document
TR010038/APP/2.8(E)

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C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER
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highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 4 OF 23

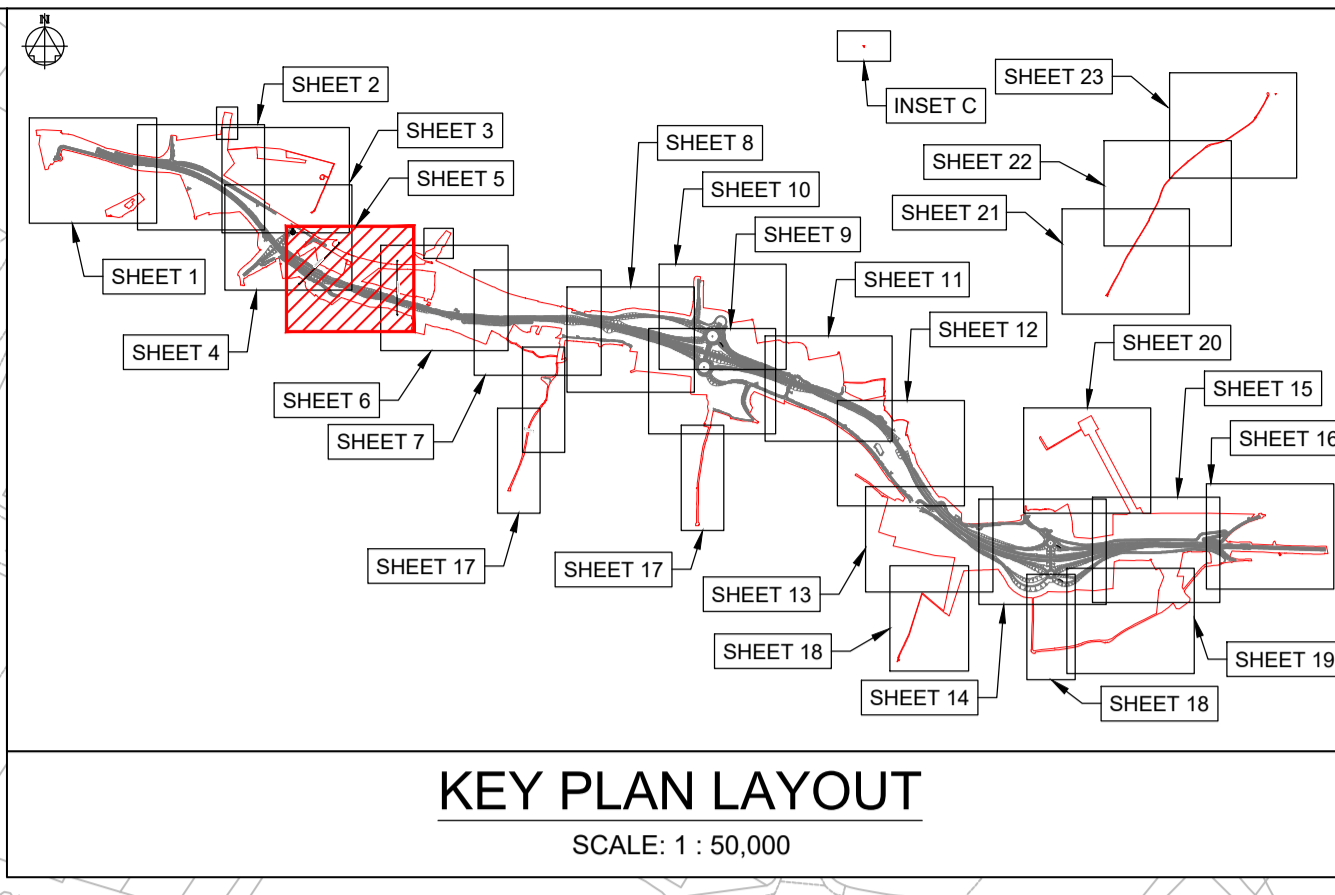
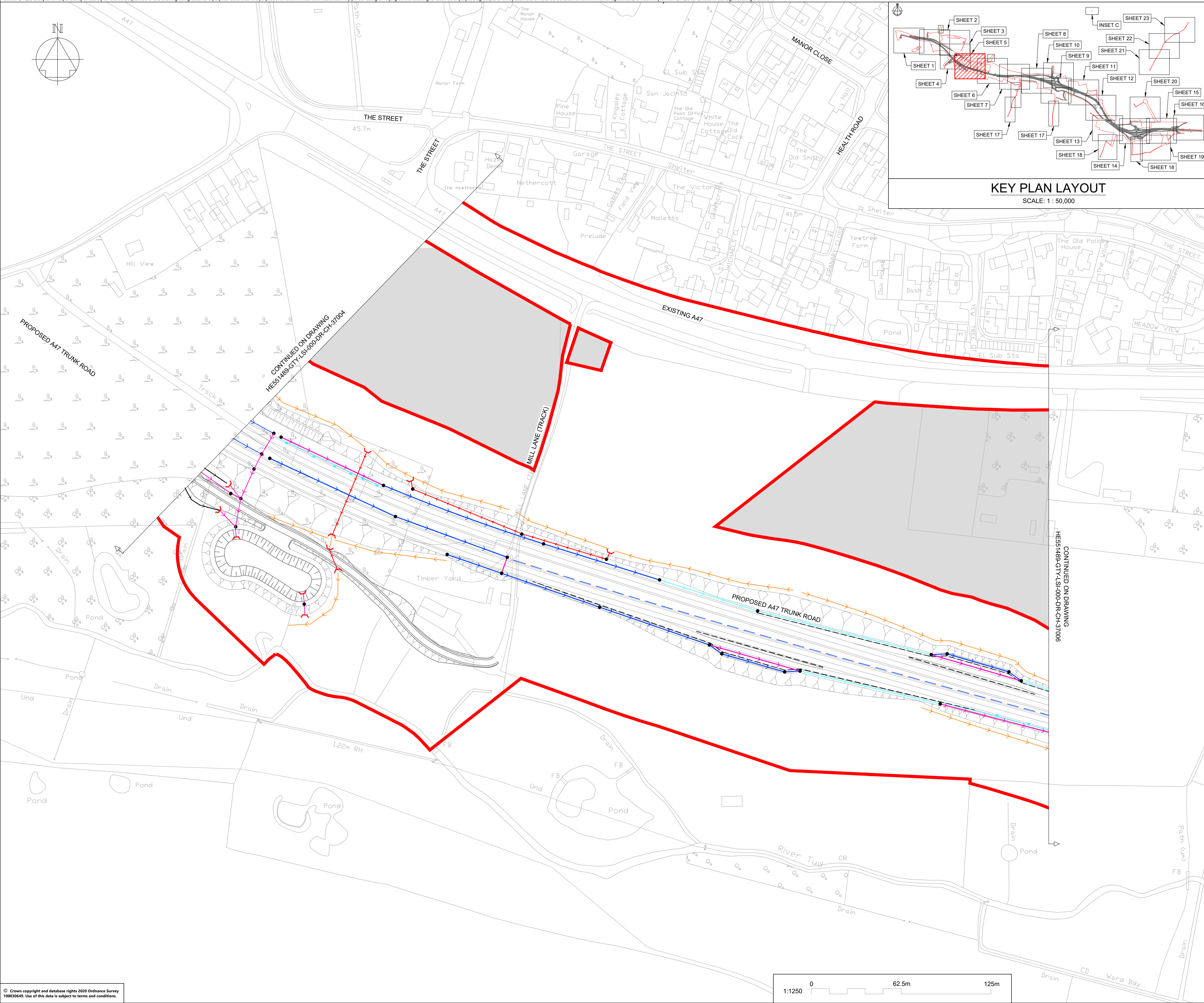
SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

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DRAWING NUMBER
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FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(F)

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER.

KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPH	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPH	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRH	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRH	JHar	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
**highways
england**

PROJECT TITLE
**A47 NORTH TUDDENHAM TO
EASTON DULLING**

PROJECT STAGE
PCF STAGE 3

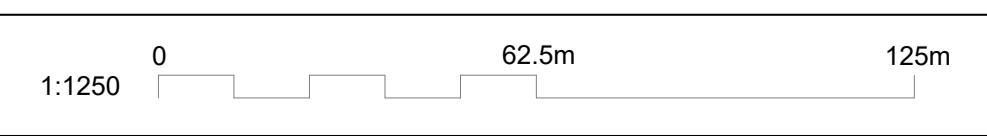
DRAWING TITLE
**DRAINAGE AND SURFACE WATER PLANS
REGULATIONS 5(4)
SHEET 5 OF 23**

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

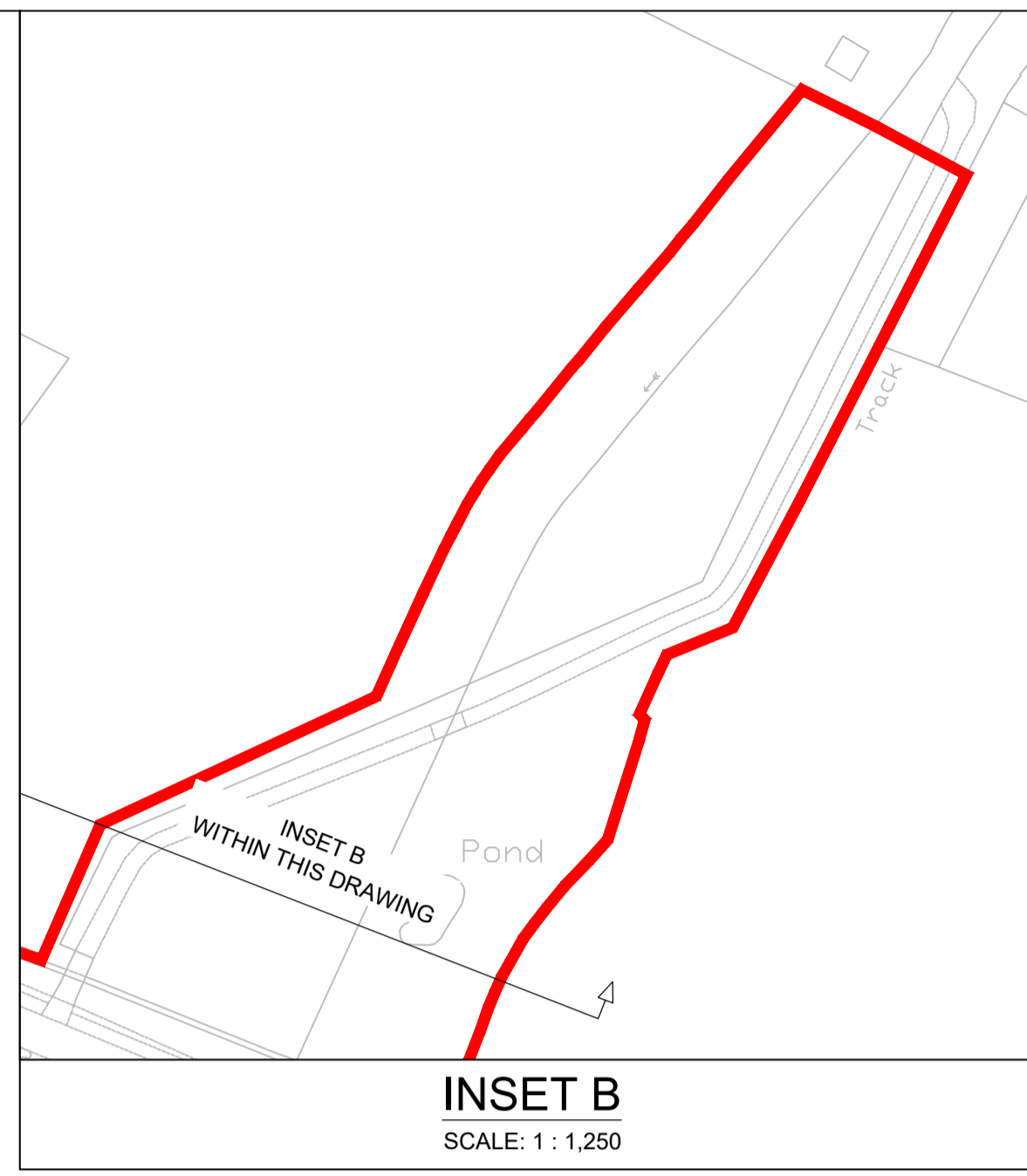
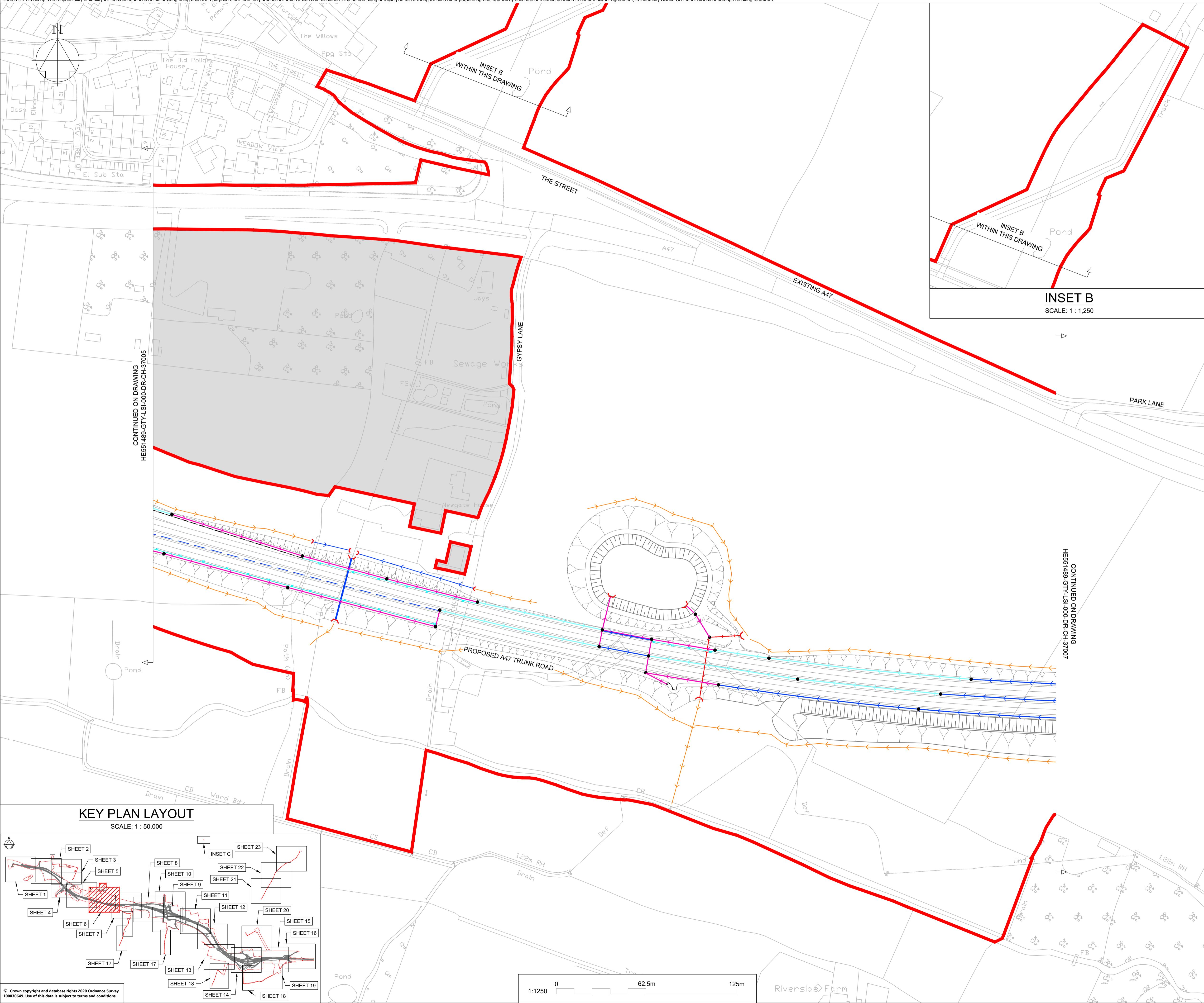
SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37005

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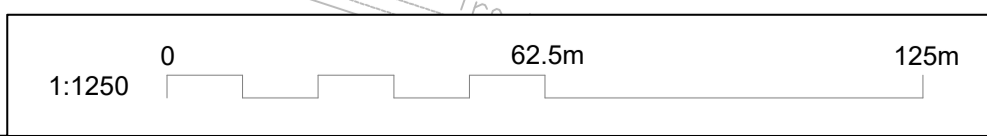
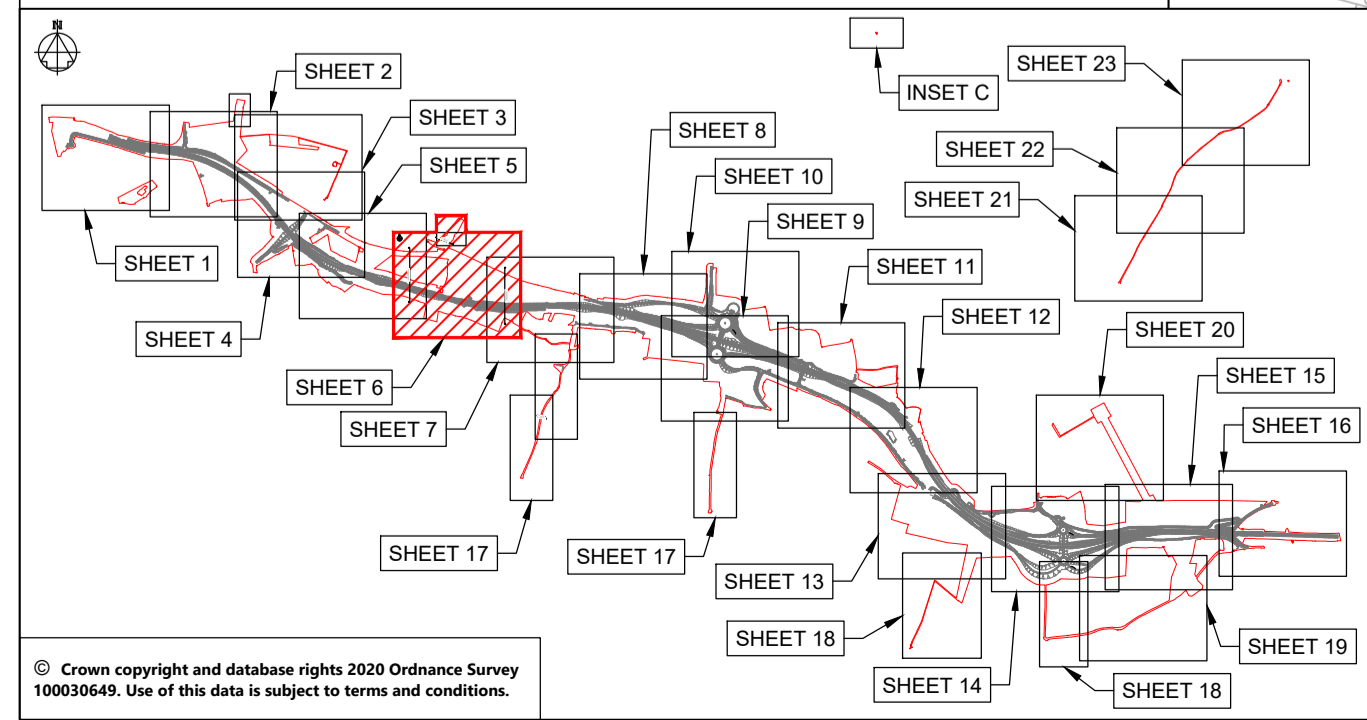
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HE551489-GTY-LSI-000-DR-CH-37005

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37007

KEY PLAN LAYOUT
SCALE: 1 : 50,000



NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(G)

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- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHK'D	APP'D
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DULLING

PROJECT STAGE
PCF STAGE 3

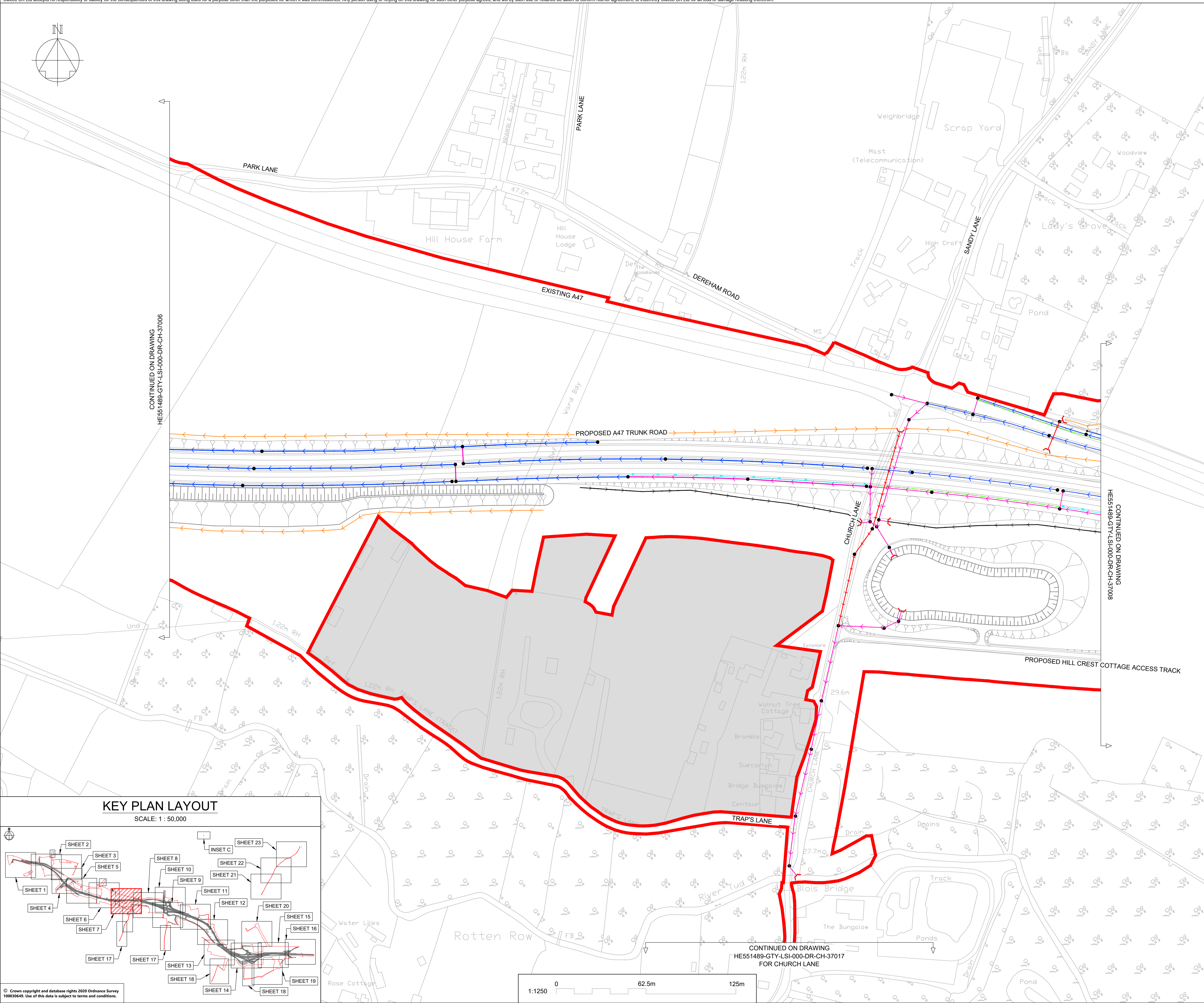
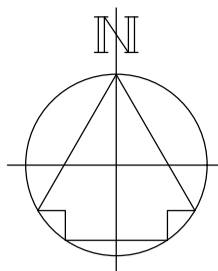
DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 6 OF 23

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37006

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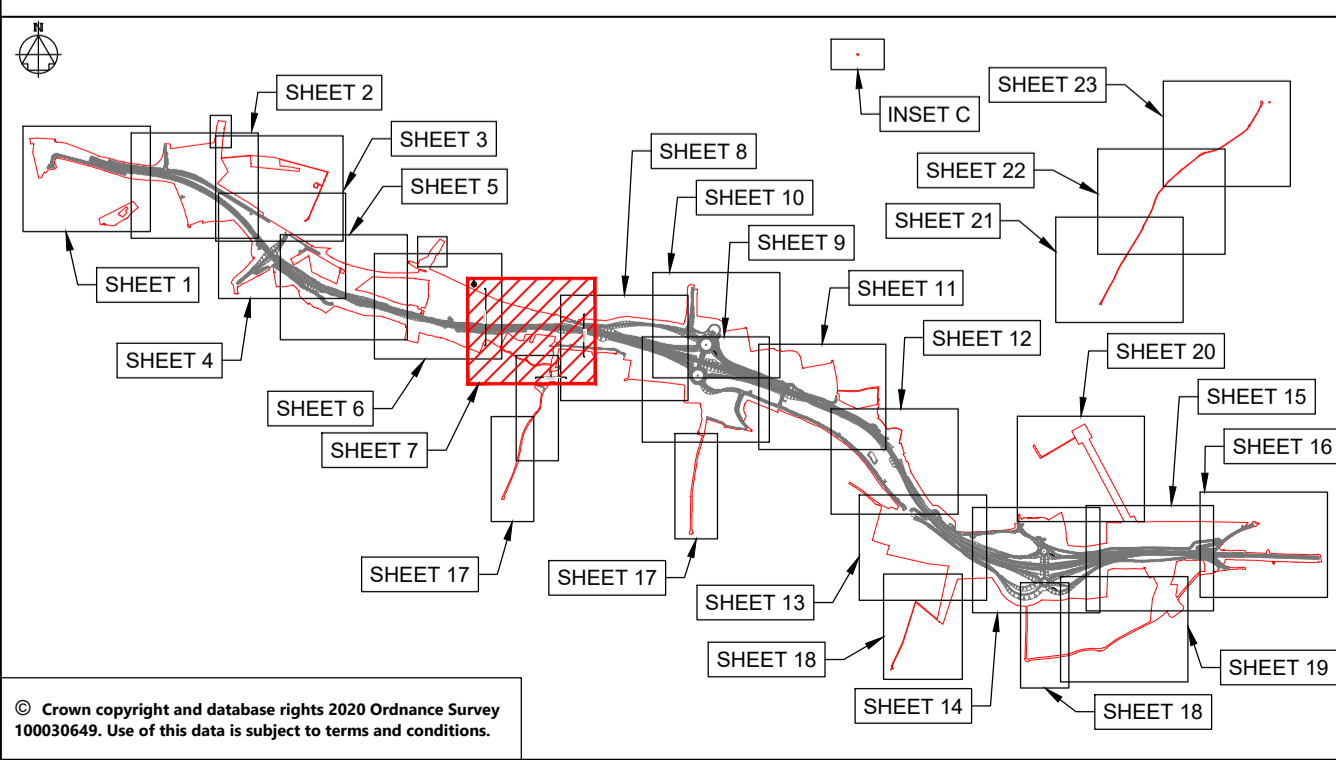


CONTINUED ON DRAWING
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CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37008

KEY PLAN LAYOUT

SCALE: 1 : 50,000



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FOR CHURCH LANE

NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(H)

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- PRE EARTHWORKS DITCH CROSS DRAIN
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- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
**highways
england**

PROJECT TITLE
**A47 NORTH TUDDENHAM TO
EASTON DULLING**

PROJECT STAGE
PCF STAGE 3

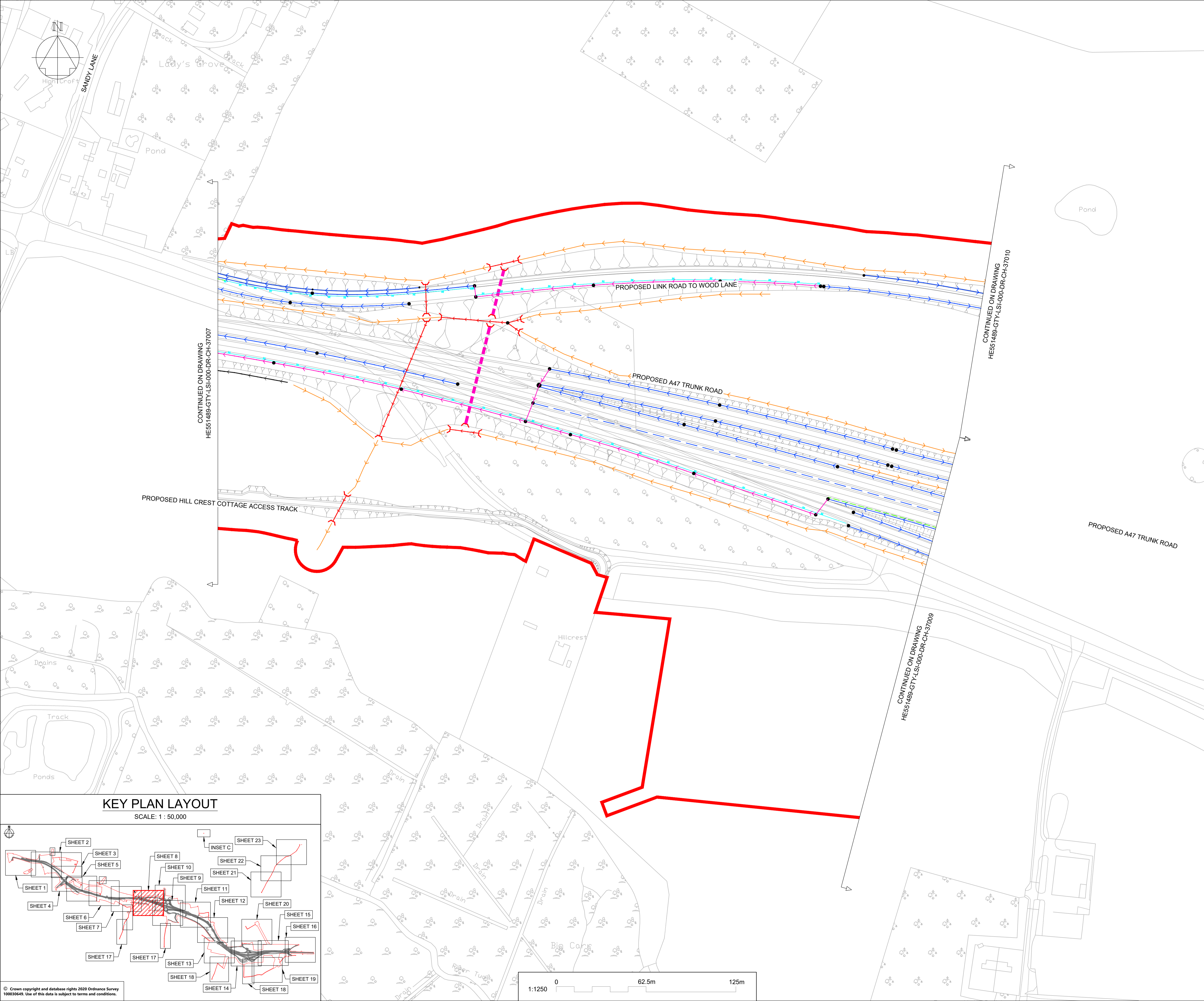
DRAWING TITLE
**DRAINAGE AND SURFACE WATER PLANS
REGULATIONS 5(4)
SHEET 7 OF 23**

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37007

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NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(I)

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KEY TO SYMBOLS

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- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

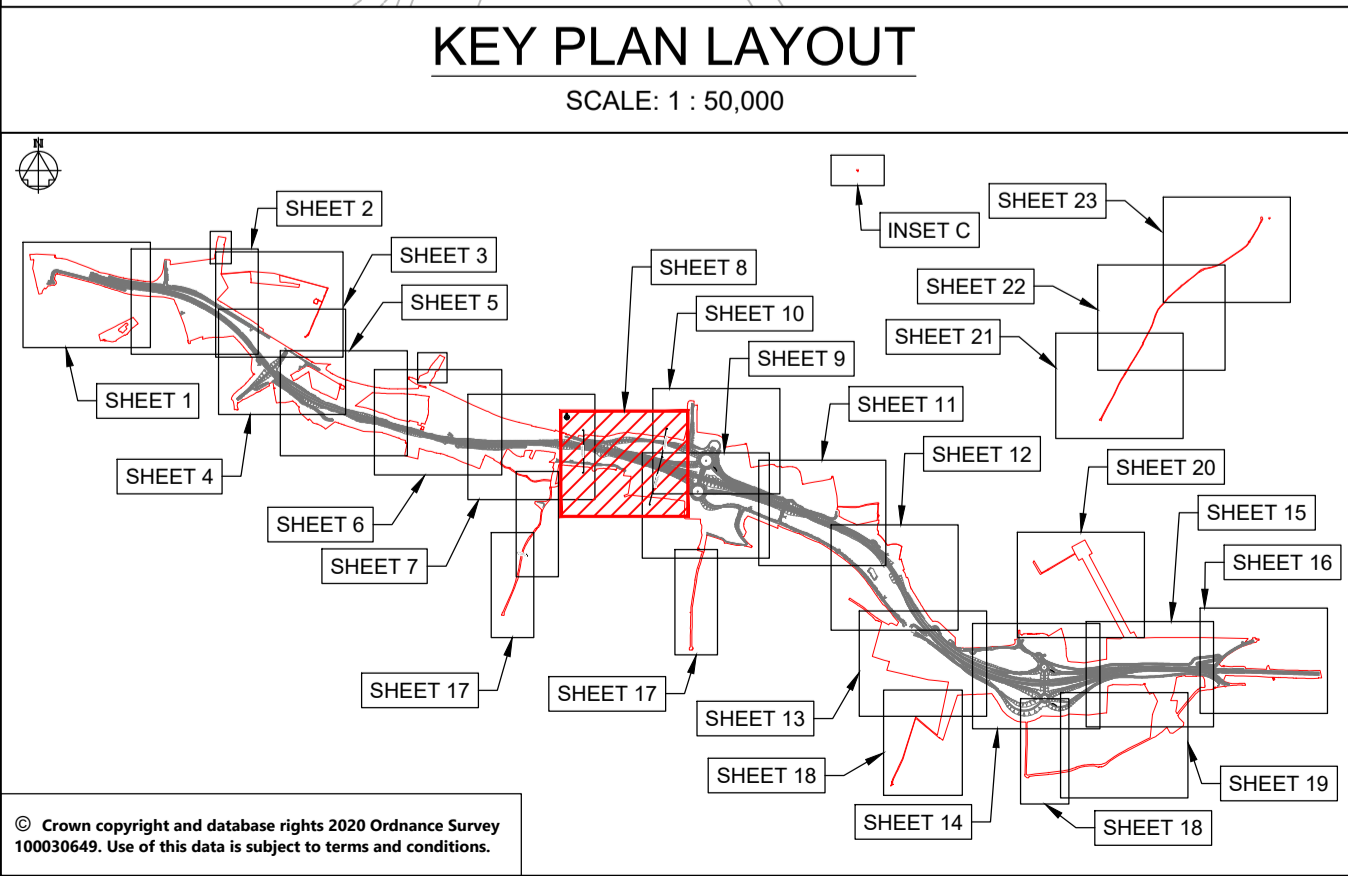
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 8 OF 23

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

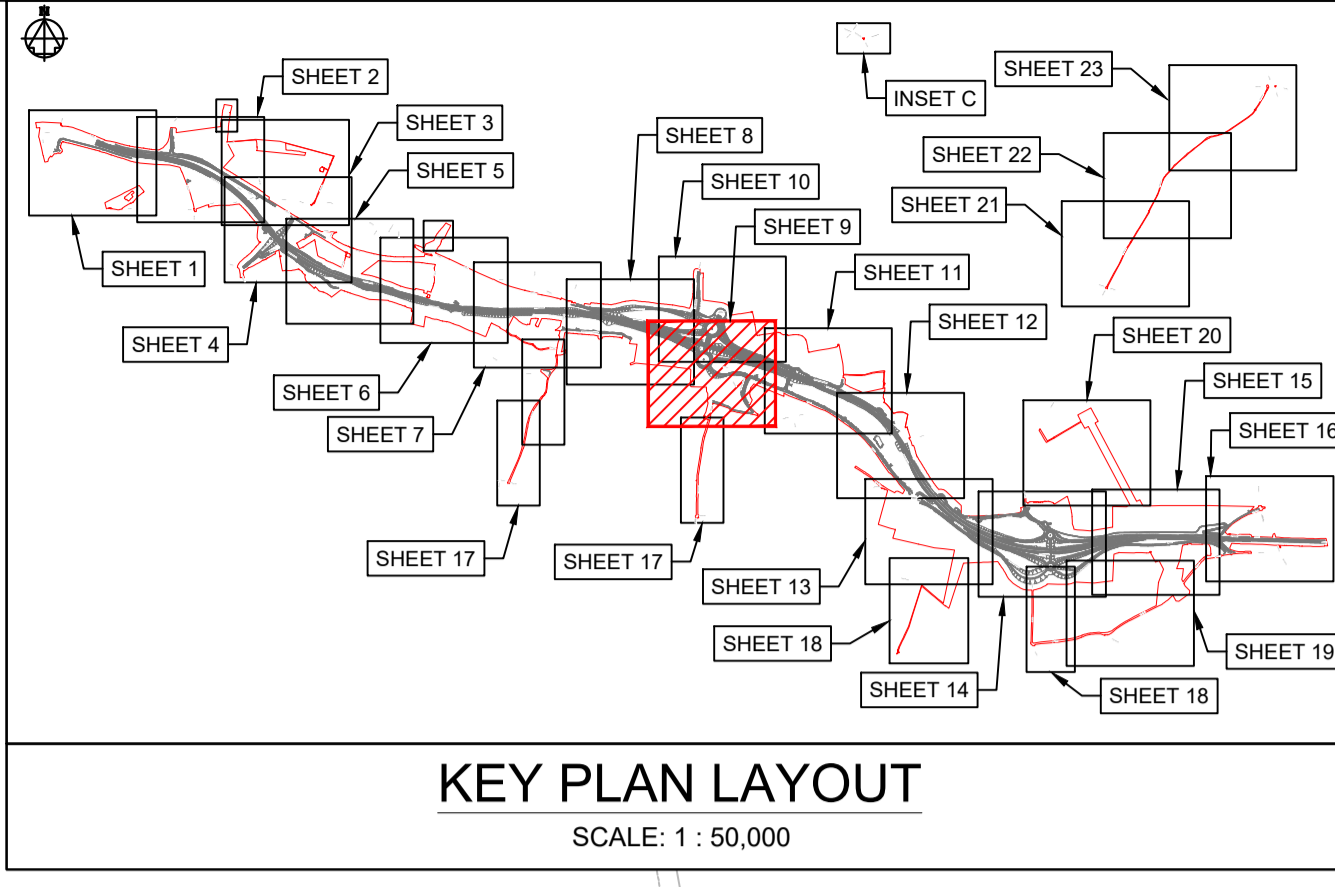
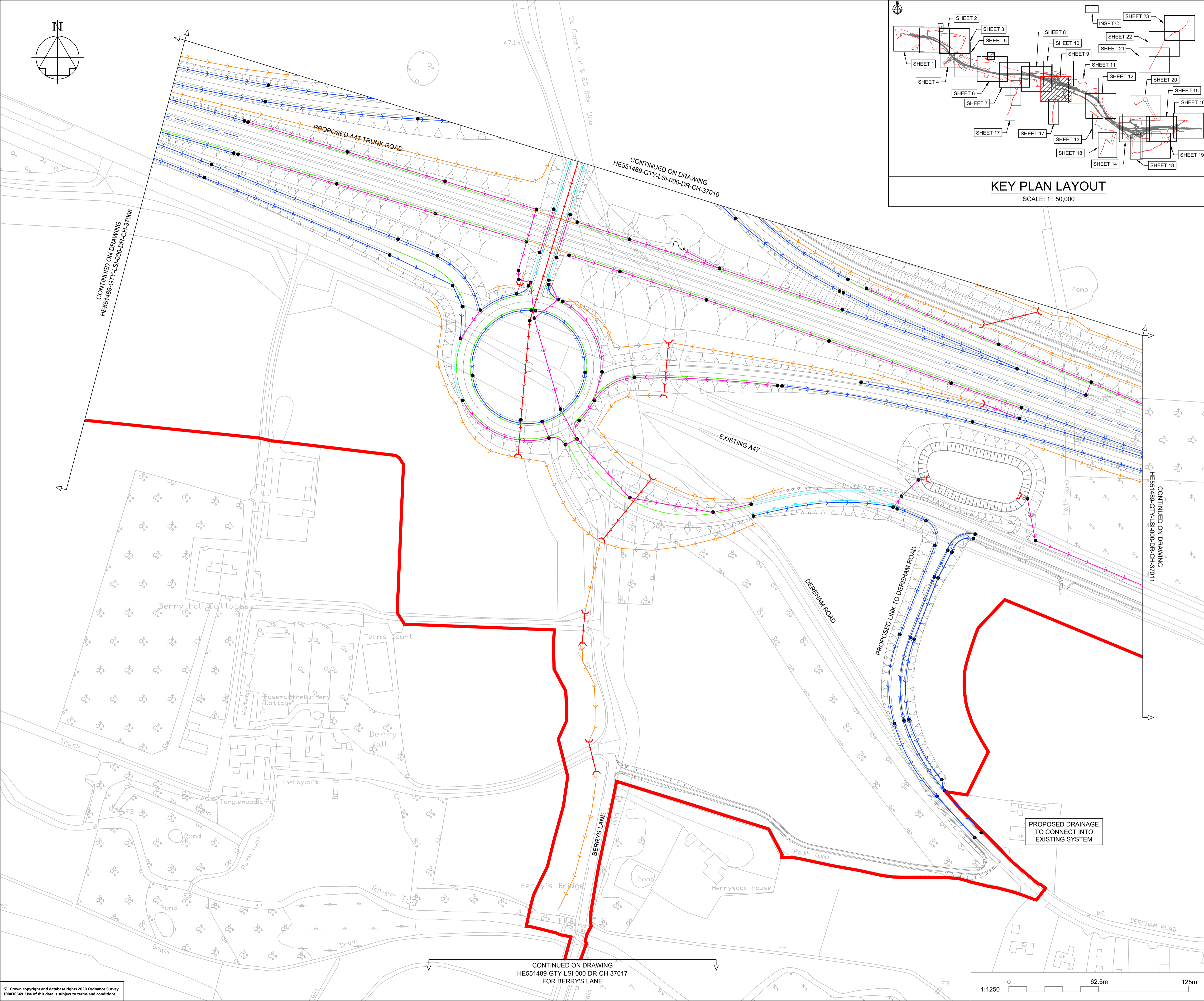
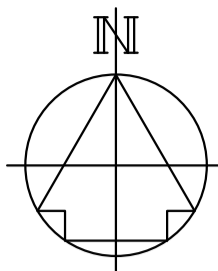
SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37008



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NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(J)

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KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
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- CARRIER DRAIN
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- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPH	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPH	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRH	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRH	JHar	MR
P06	01/10/21	DCO DEADLINE 3		MR	MR
C02	01/10/21	DCO DEADLINE 3		MR	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 4

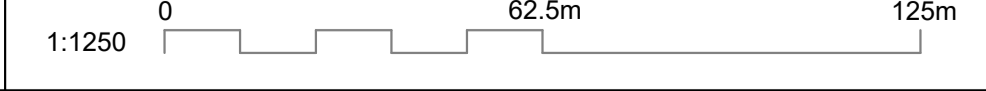
DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 9 OF 23

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37009

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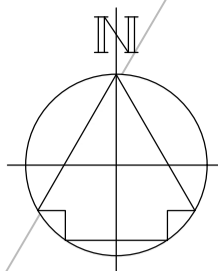
CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37017
FOR BERRYS LANE

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37008

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37010

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37011

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B1535
WOOD LANE

DRAINAGE TO TIE INTO
EXISTING SYSTEM

PROPOSED LINK ROAD TO
EXISTING WOOD LANE

NORWICH
WESTERN LINK

PROPOSED A47 TRUNK ROAD

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37008

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37009

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37011

NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(K)

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REV	DATE	REVISION NOTE	ORG	CHK'D	APP'D
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
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P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 10 OF 23

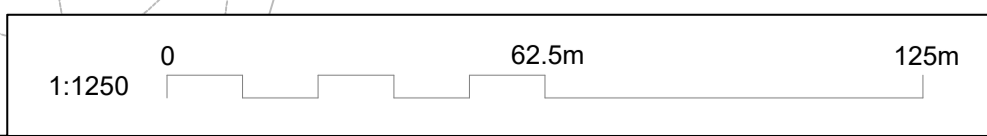
SUITABILITY

AUTHORISED AS STAGE 3 COMPLETED

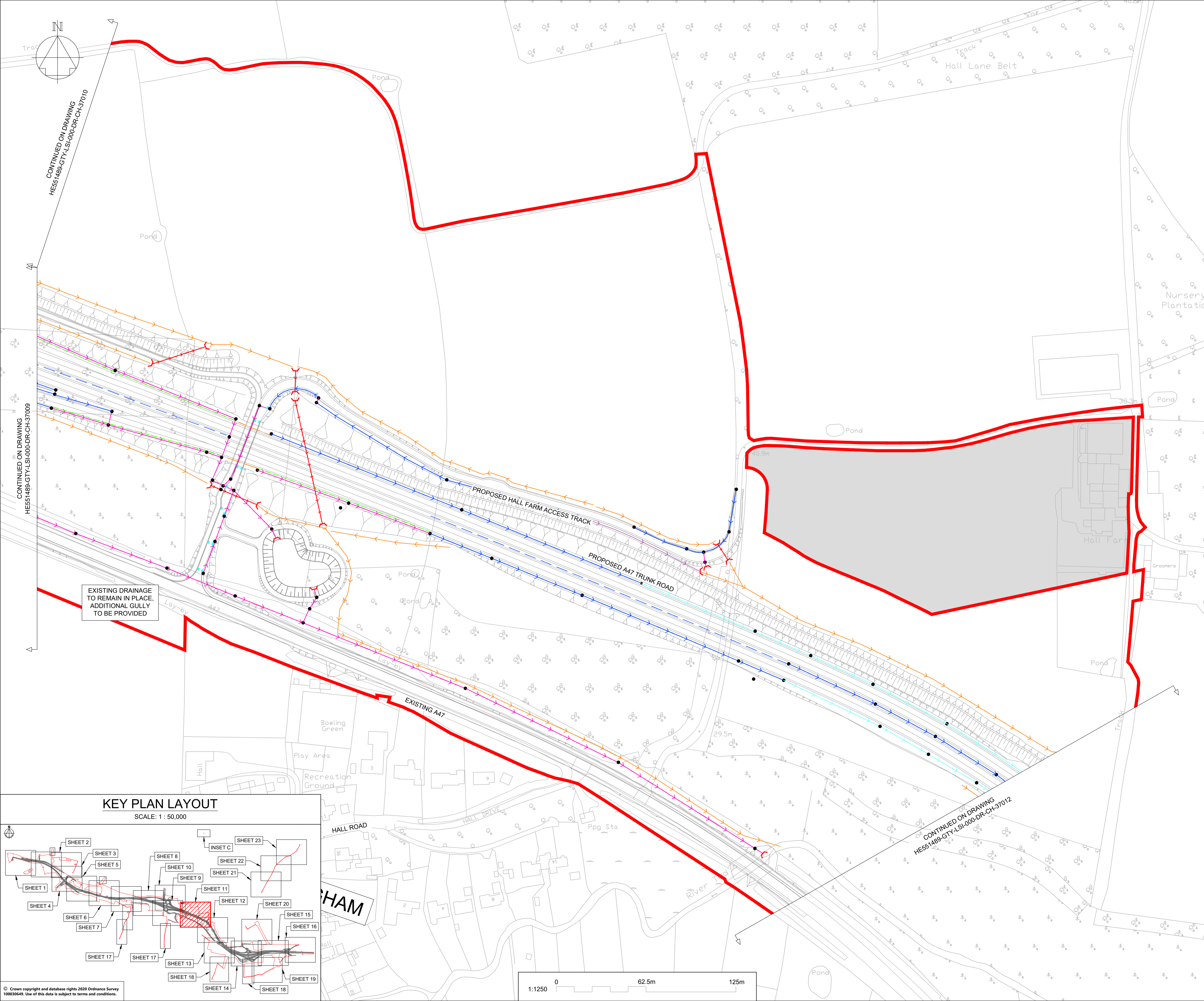
SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37010

KEY PLAN LAYOUT
SCALE: 1 : 50,000



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NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(L)

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P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

**highways
england**

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DULLING

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 11 OF 23

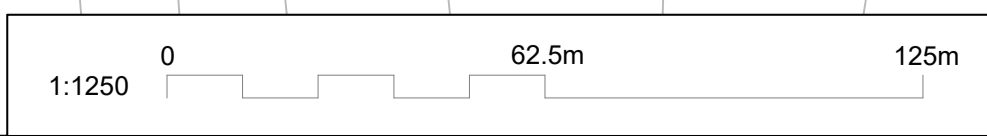
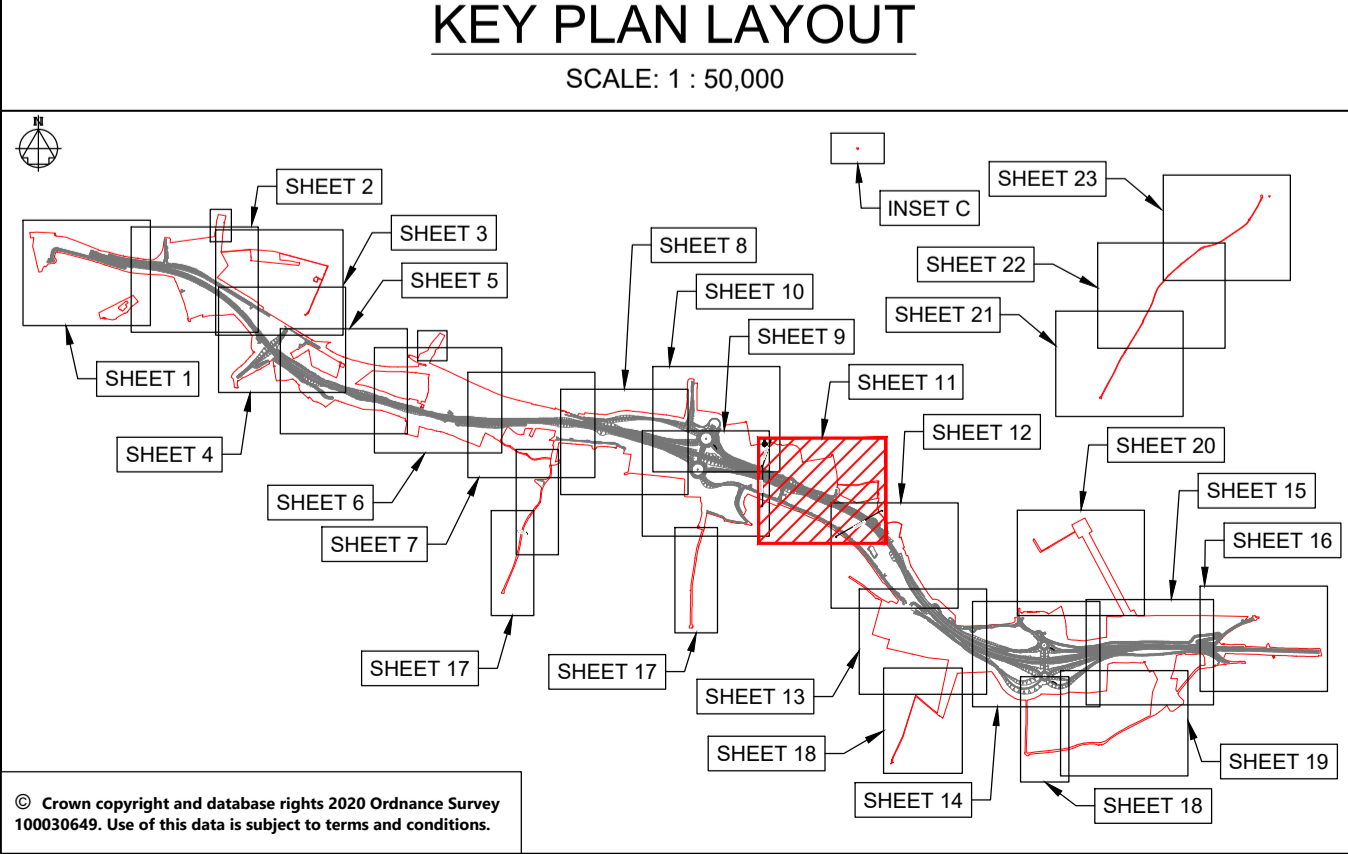
SUITABILITY

AUTHORISED AS STAGE 3 COMPLETED

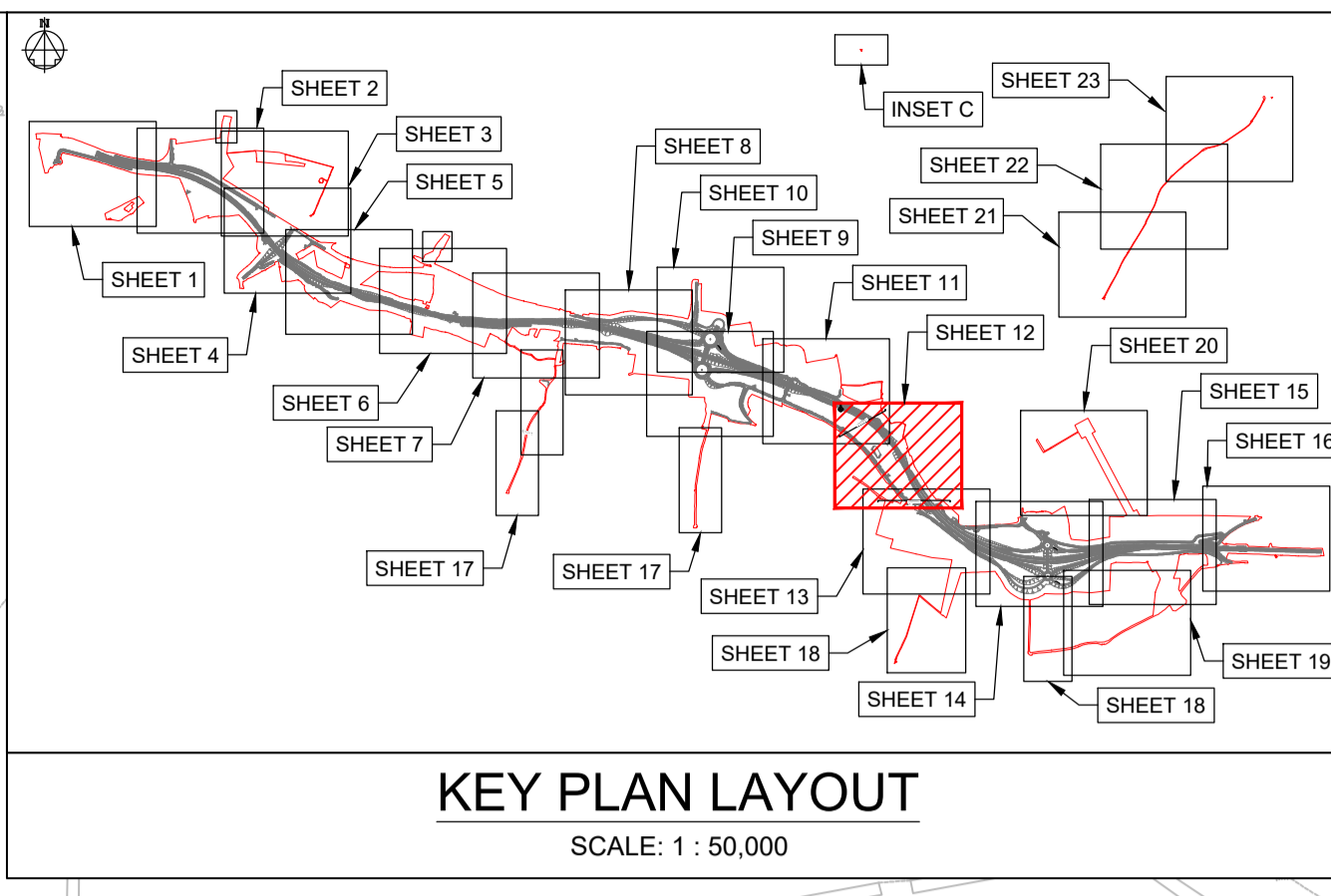
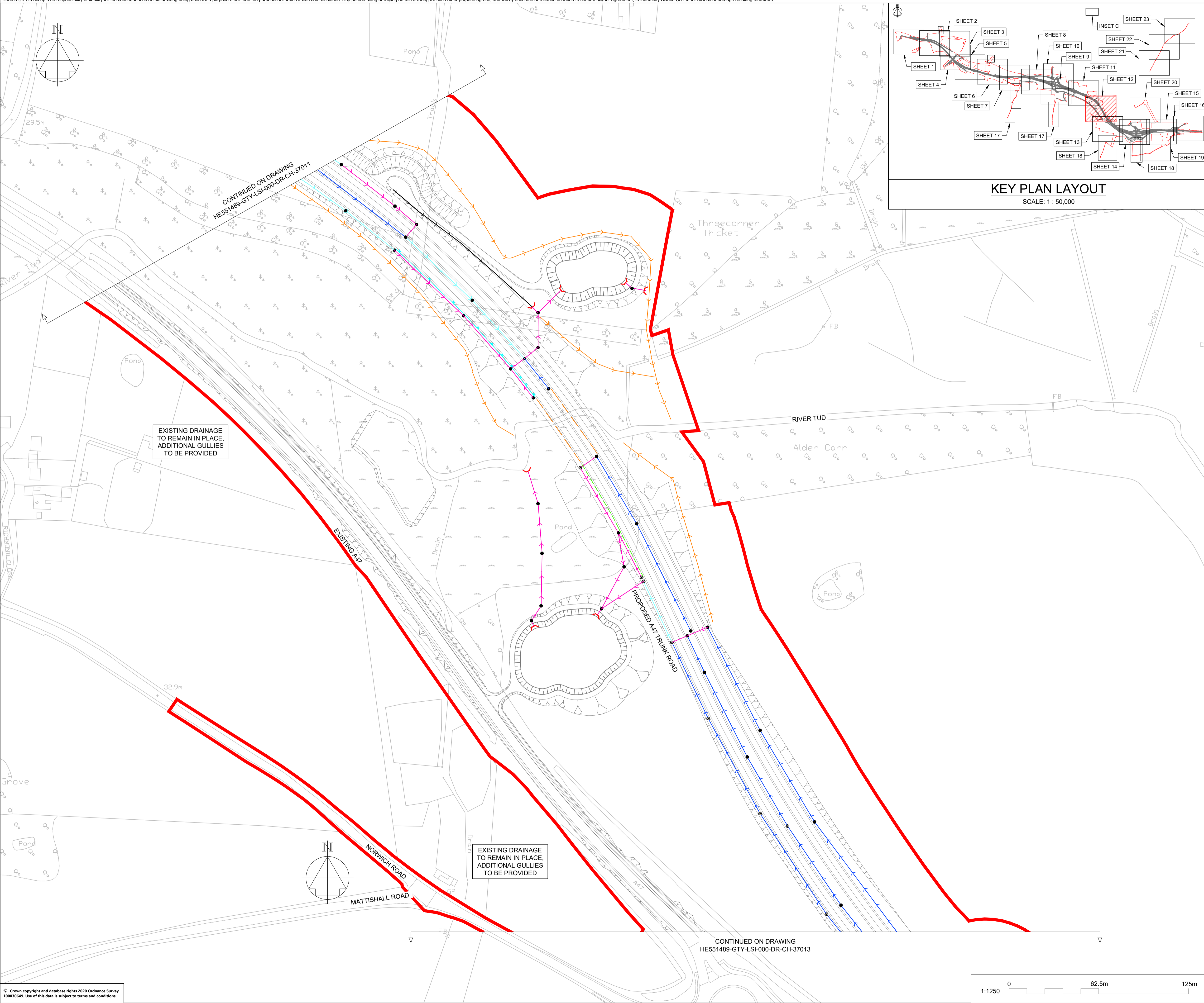
SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER

HE551489-GTY-LSI-000-DR-CH-37011



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NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(M)

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER.

KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	JHar	JHar	MR
C01	25/02/21	DCO SUBMISSION	JHar	JHar	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

**highways
england**

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DULLING

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 12 OF 23

SUITABILITY

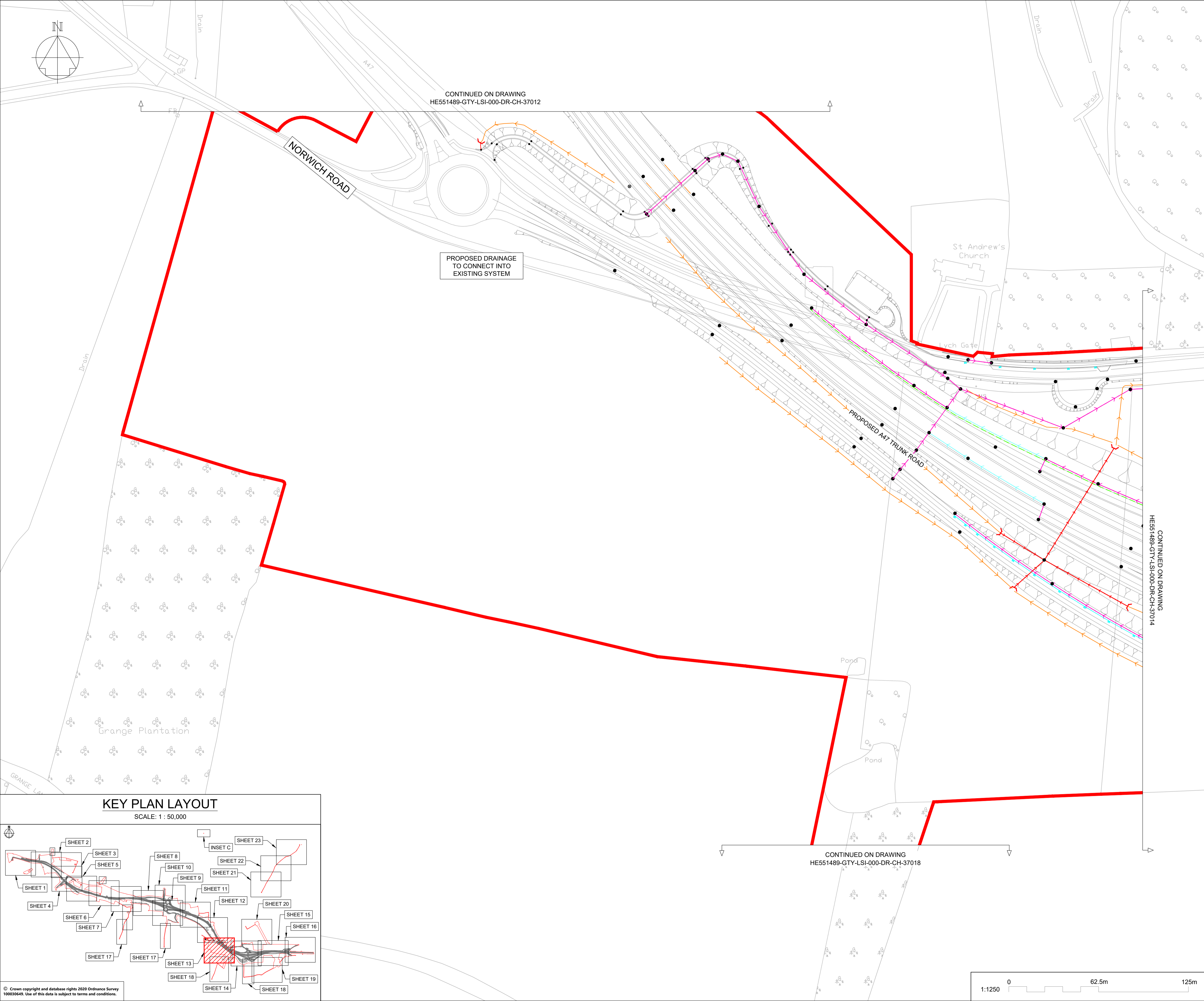
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER

HE551489-GTY-LSI-000-DR-CH-37012

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CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37012

PROPOSED DRAINAGE
TO CONNECT INTO
EXISTING SYSTEM

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37014

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37018

NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(N)

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER.

KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DULLING

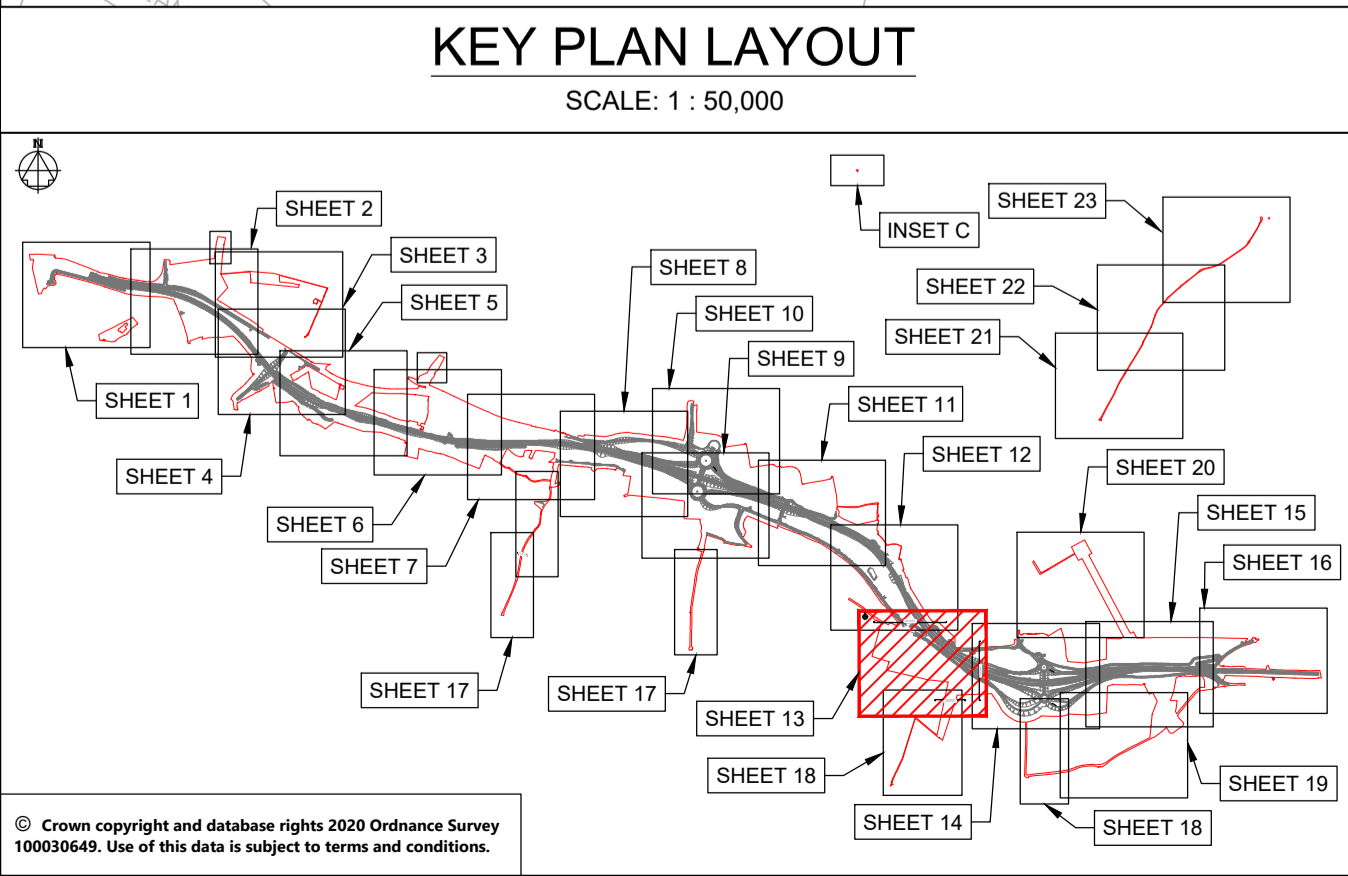
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 13 OF 23

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

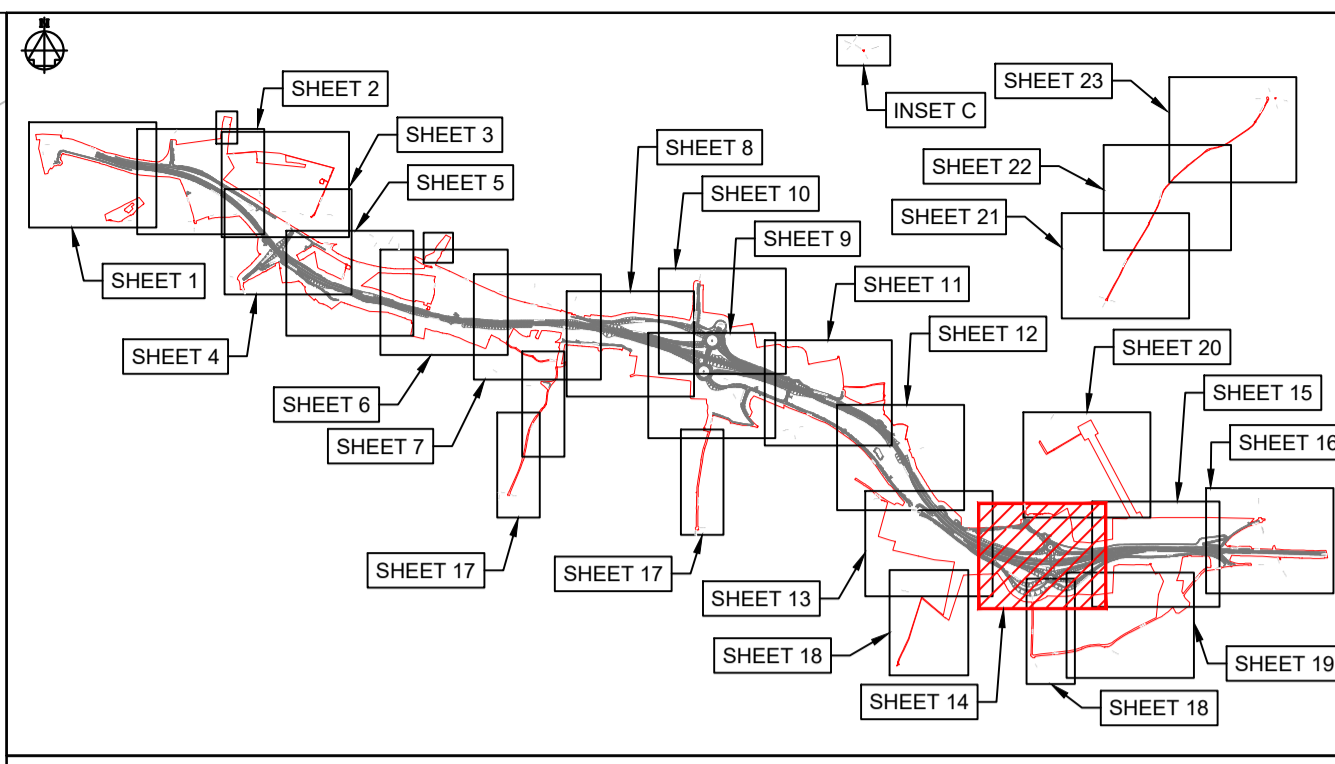
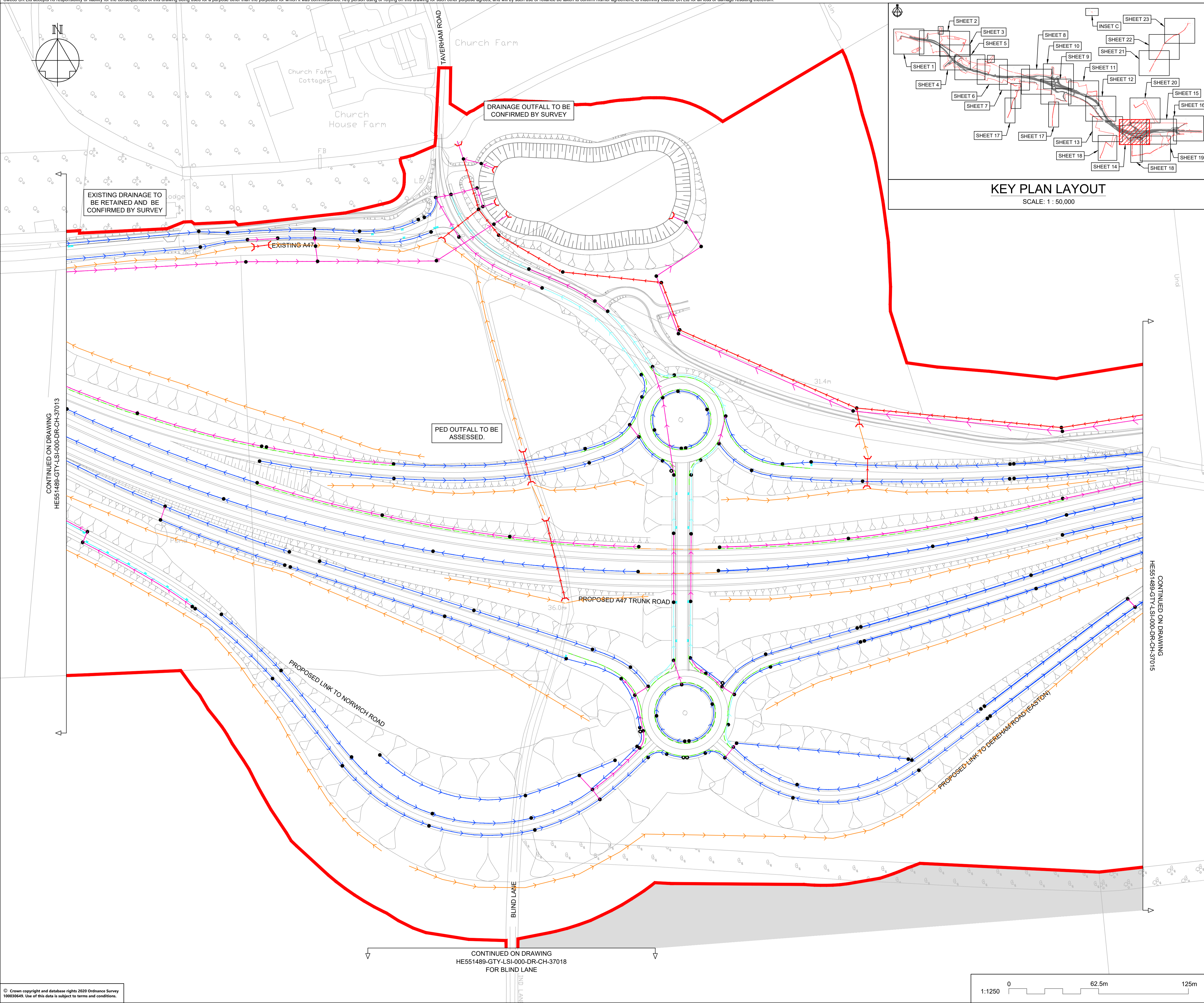
SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37013



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KEY PLAN LAYOUT
SCALE: 1:50,000

NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(O)

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KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPII	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPII	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRII	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRII	JHar	MR
P06	01/10/21	DCO DEADLINE 3		MR	MR
C02	01/10/21	DCO DEADLINE 3		MR	MR
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 4

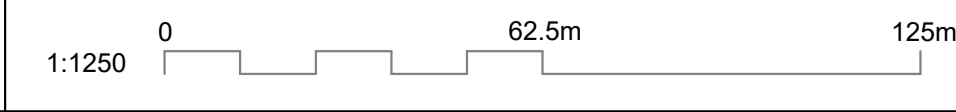
DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 14 OF 23

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

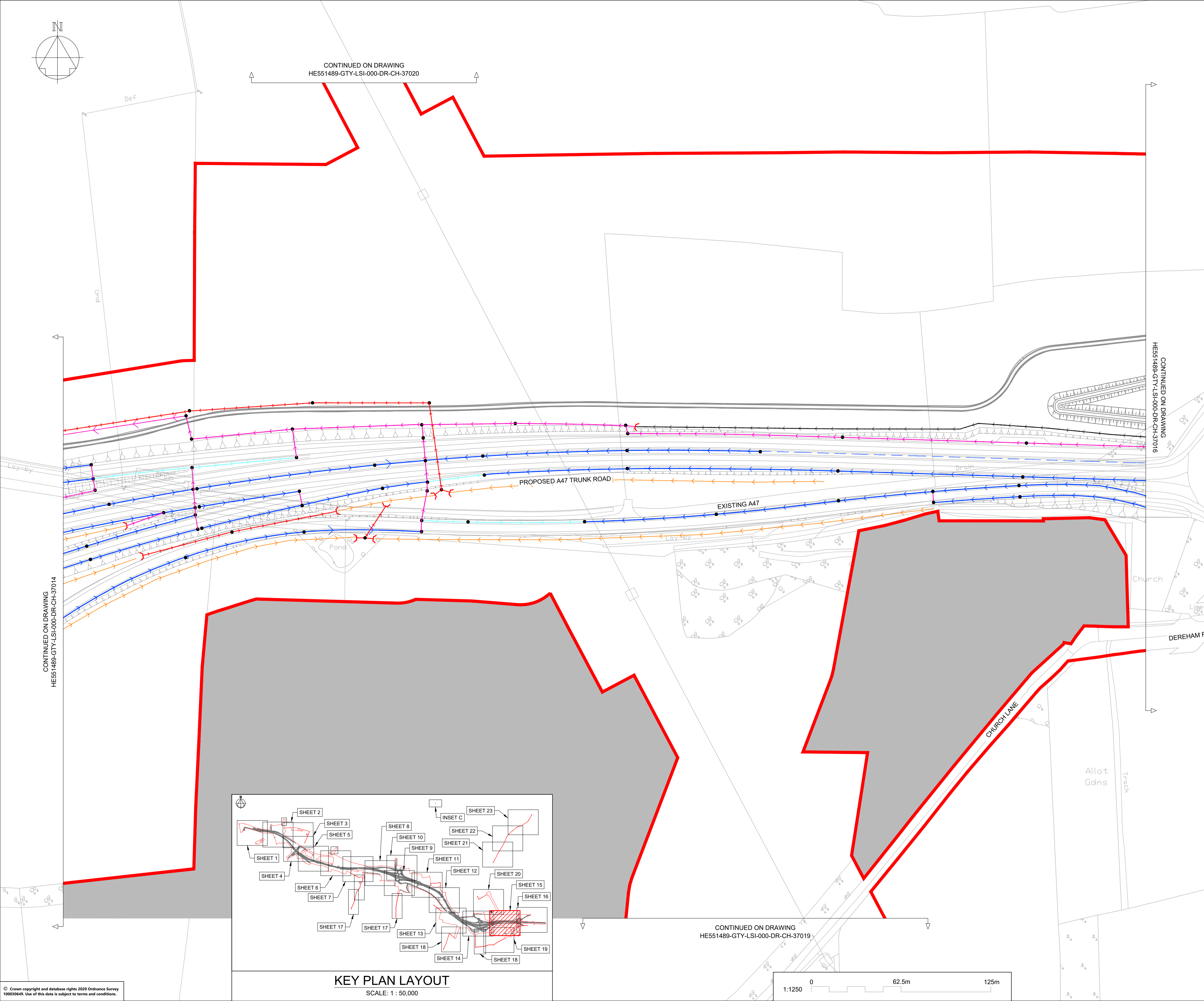
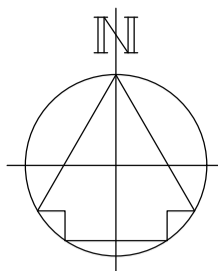
SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37014

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NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(P)

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KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
**highways
england**

PROJECT TITLE
**A47 NORTH TUDDENHAM TO
EASTON DUALLING**

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
**DRAINAGE AND SURFACE WATER PLANS
REGULATIONS 5(4)
SHEET 15 OF 23**

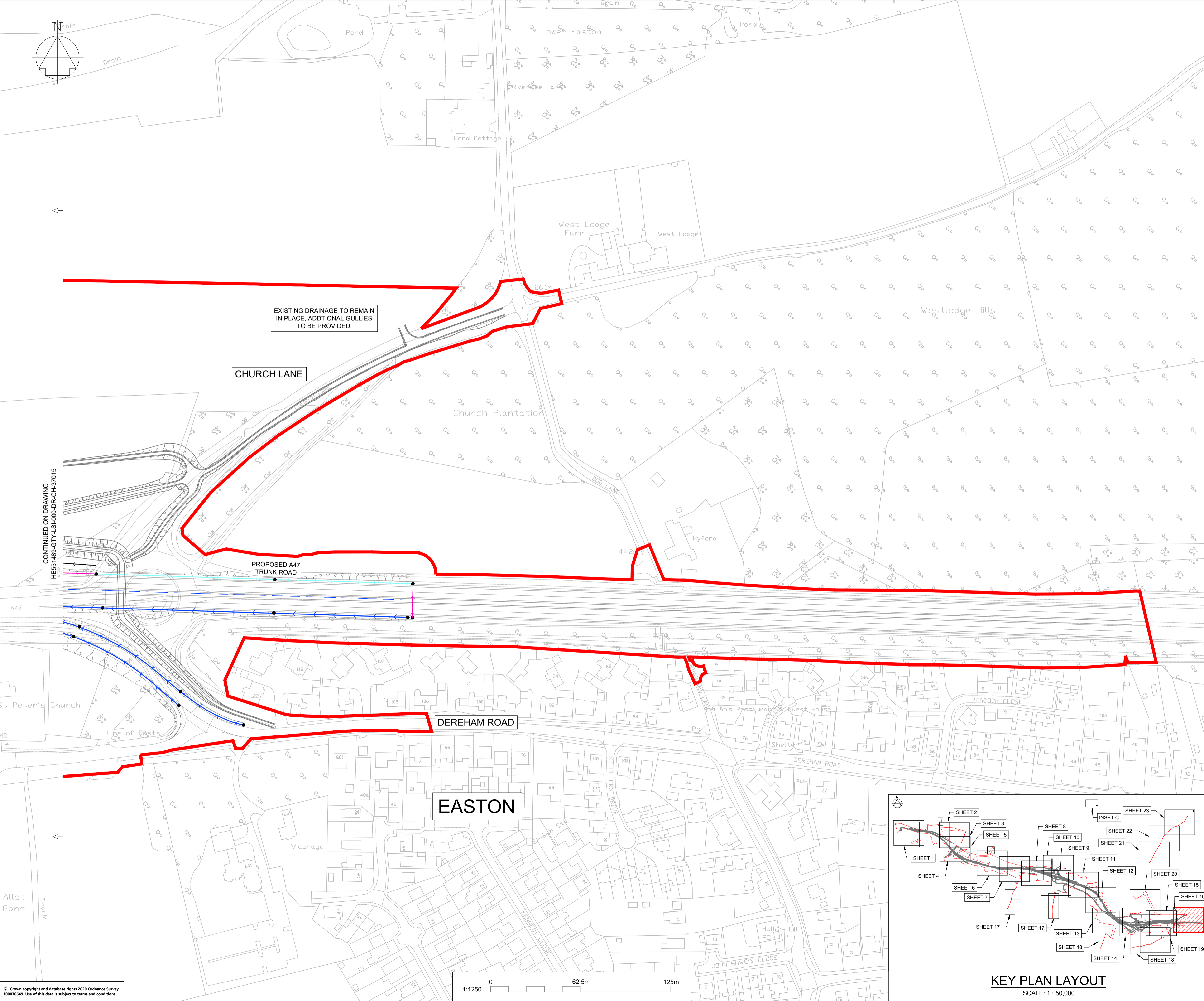
SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37015

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NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(Q)

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER.

KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPH	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPH	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRH	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRH	JHar	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A7 NORTH TUDDENHAM TO EASTON DUALING

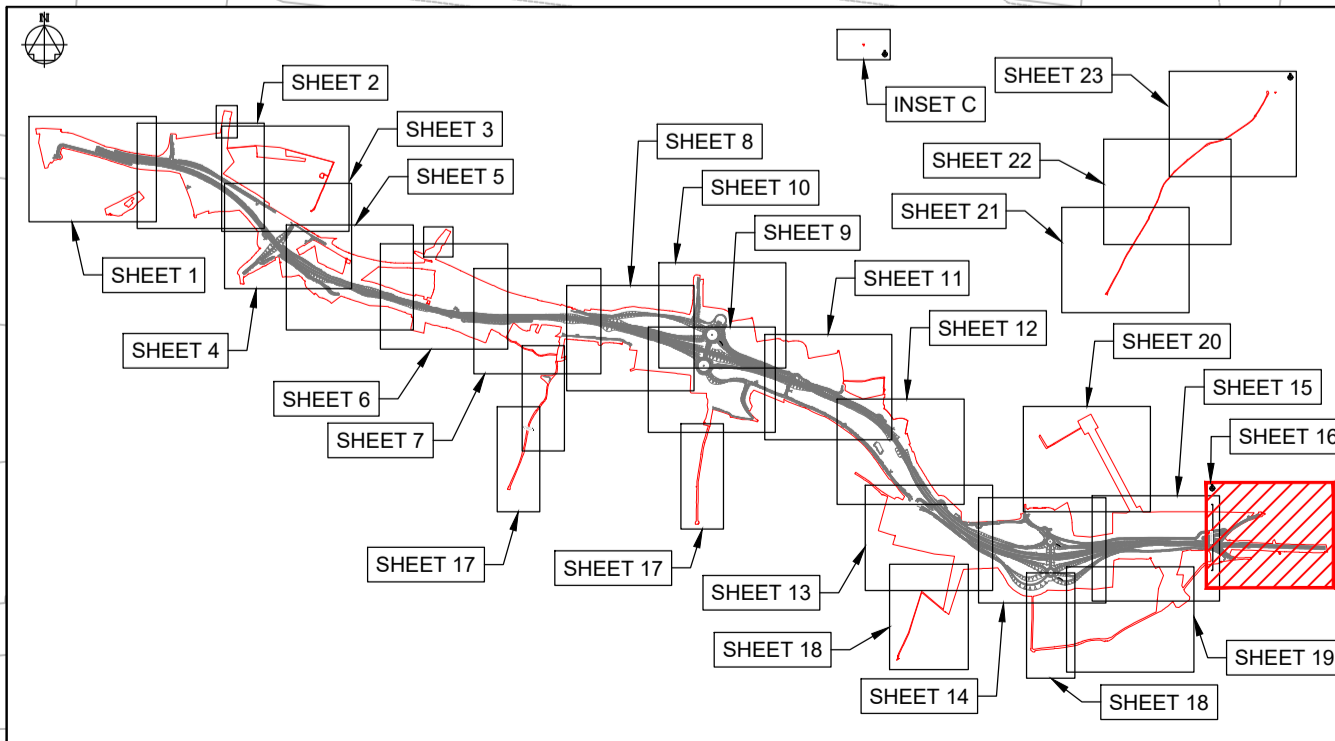
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 16 OF 23

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

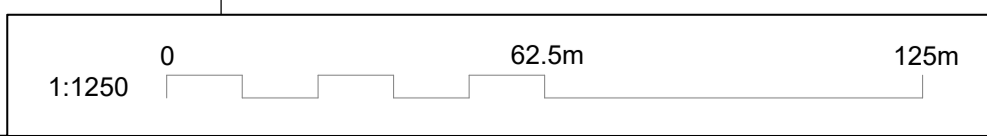
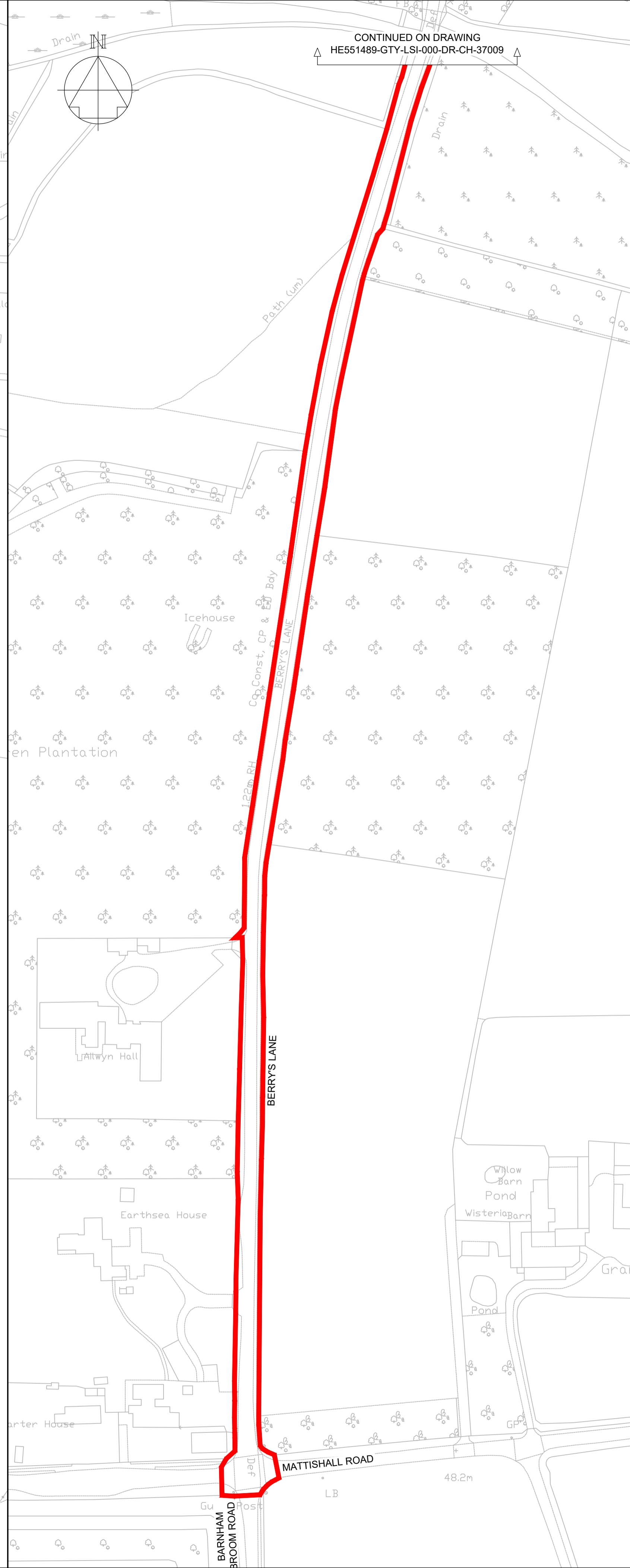
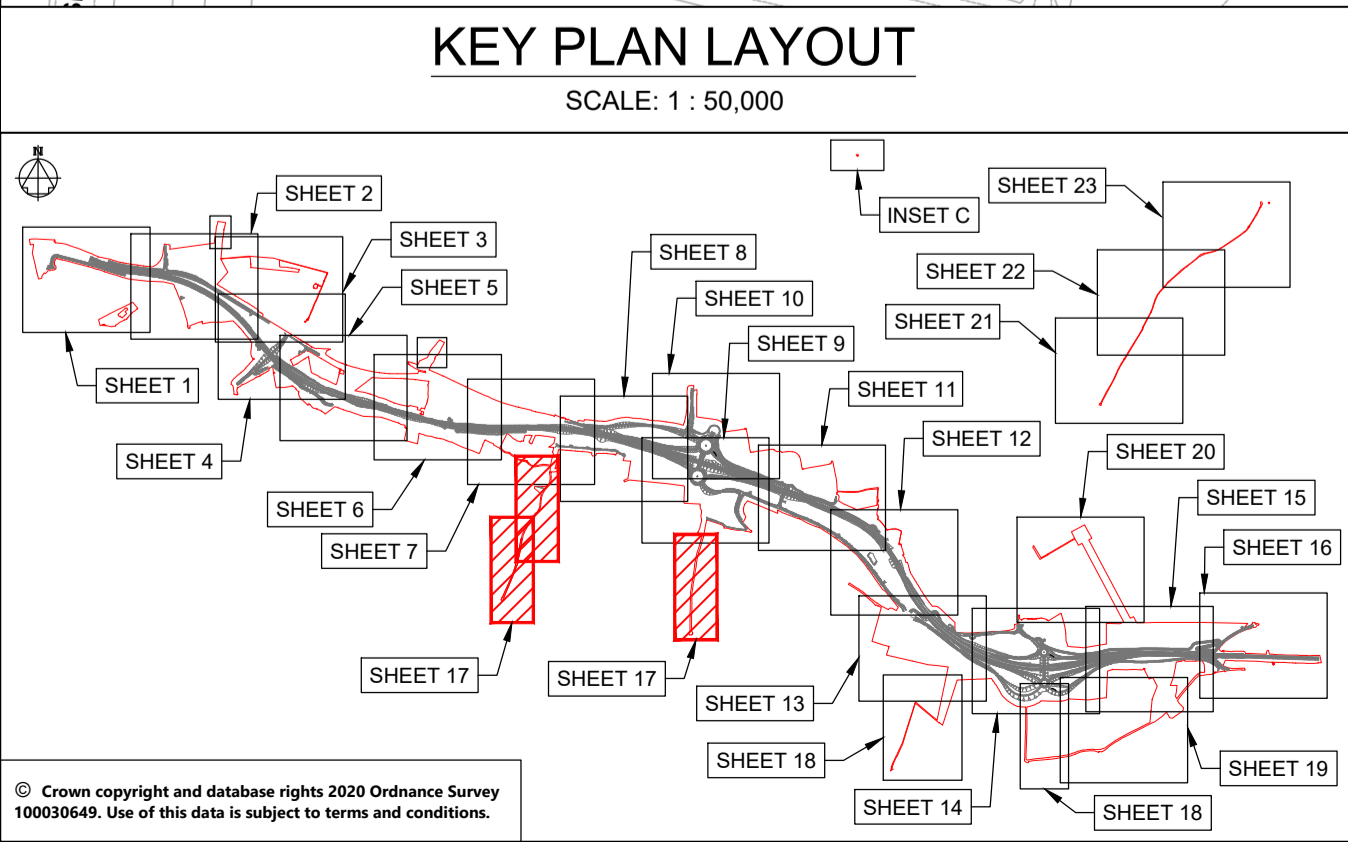
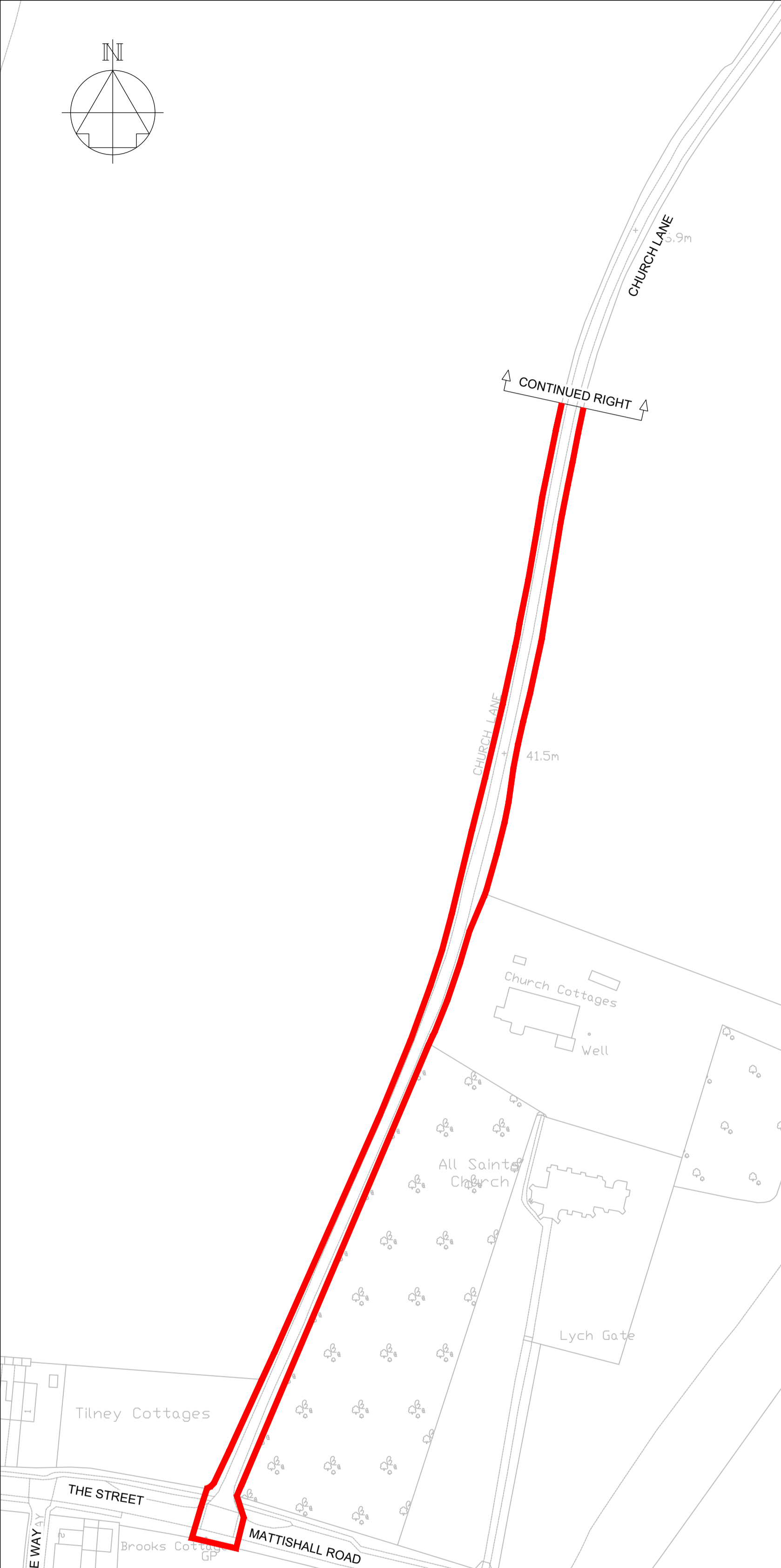
SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE51489-GTY-LSI-000-DR-CH-37016



KEY PLAN LAYOUT
SCALE: 1 : 50,000

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NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(R)

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KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPII	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPII	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRII	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRII	JHar	MR
P06	10/03/21	DCO SUBMISSION	MWat	JMcC	MR
C02	10/03/21	DCO SUBMISSION	MWat	JMcC	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 17 OF 23

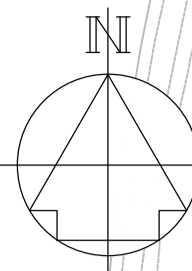
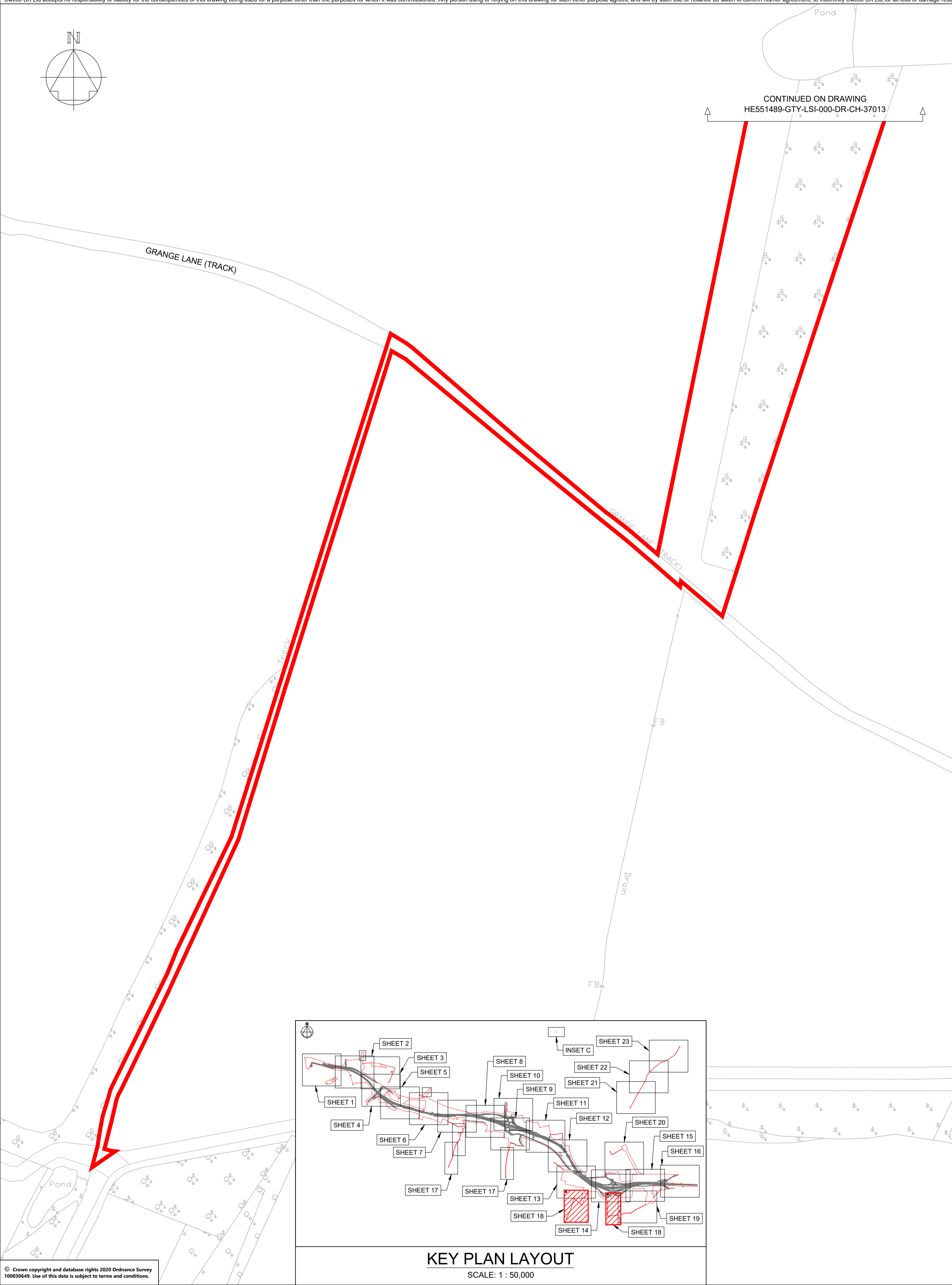
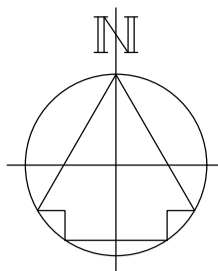
SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C02

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37017

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DRAWING INCLUDED FOR COMPLETENESS,
NO DRAINAGE IS PROPOSED HERE

NOTES
Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(S)

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KEY TO SYMBOLS

- ORDER LIMITS
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- AREA NOT INCLUDED IN ORDER LIMITS
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- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
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- PRE EARTHWORKS DITCH CROSS DRAIN
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- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

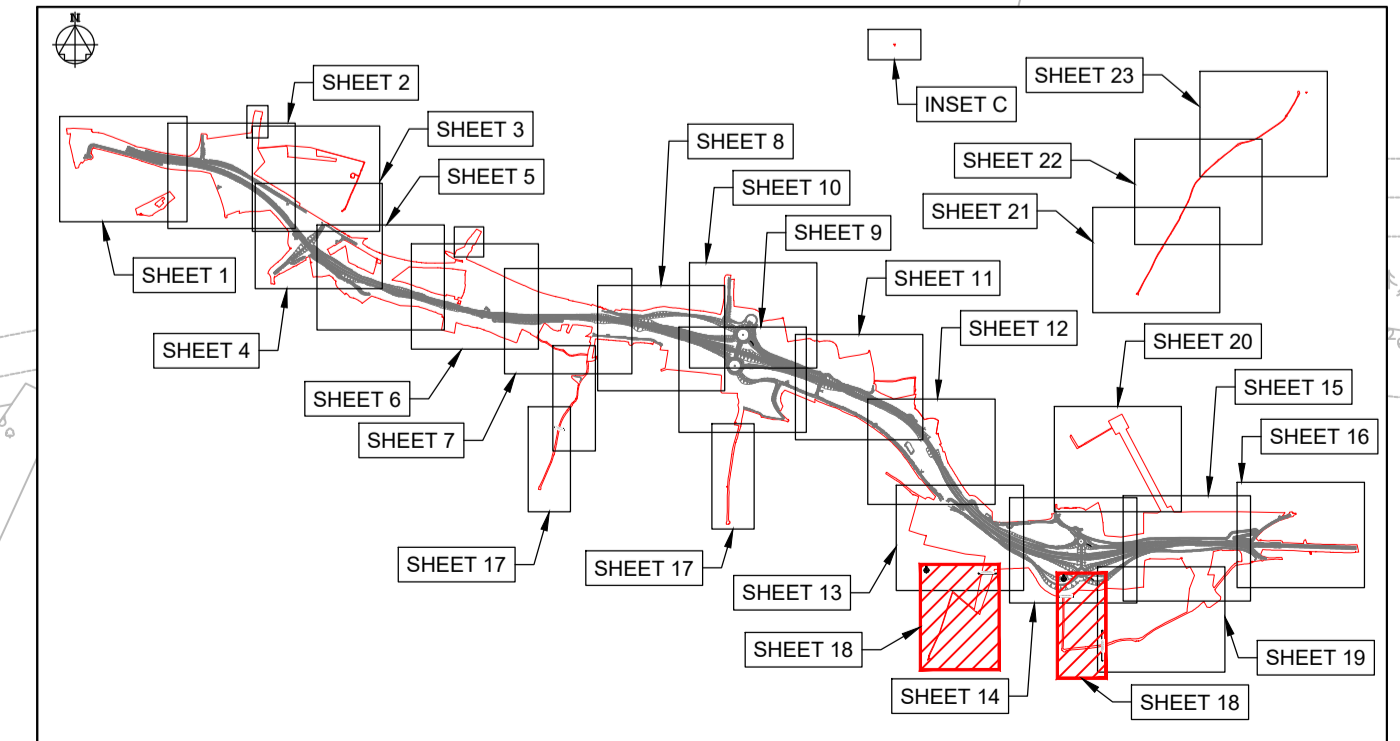
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 18 OF 23

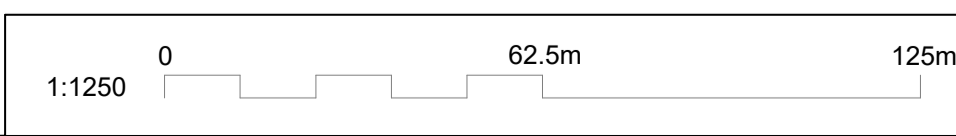
SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37018

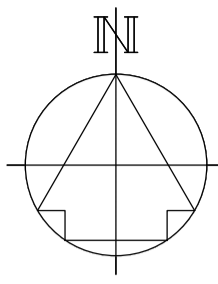


KEY PLAN LAYOUT
SCALE: 1 : 50,000



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NO DRAINAGE IS PROPOSED HERE

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37015

CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37018

NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(T)

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER.

KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPII	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPII	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRii	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRii	JHar	MR

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

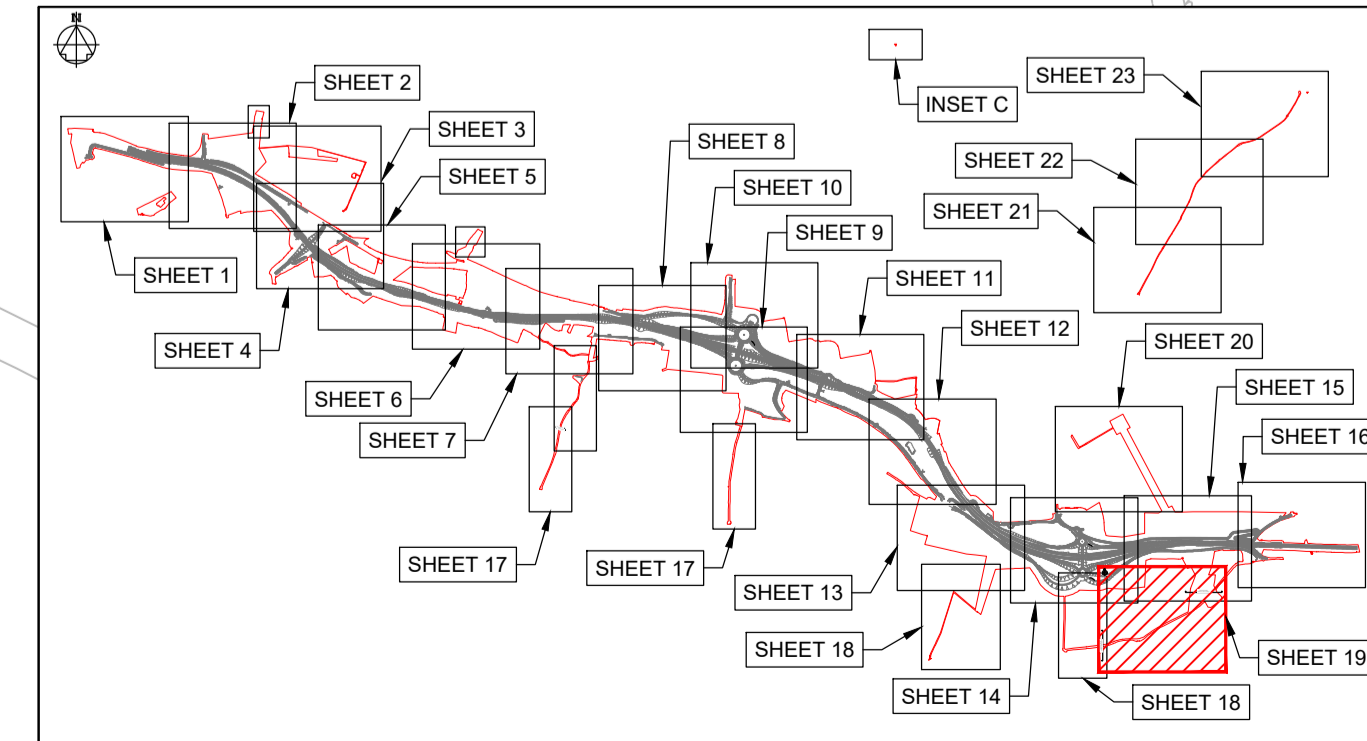
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 19 OF 23

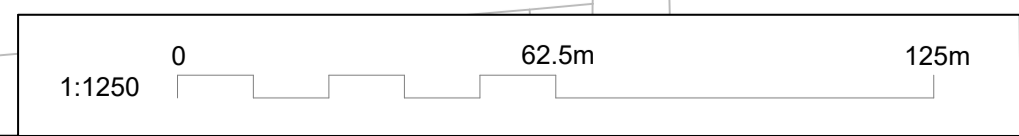
SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

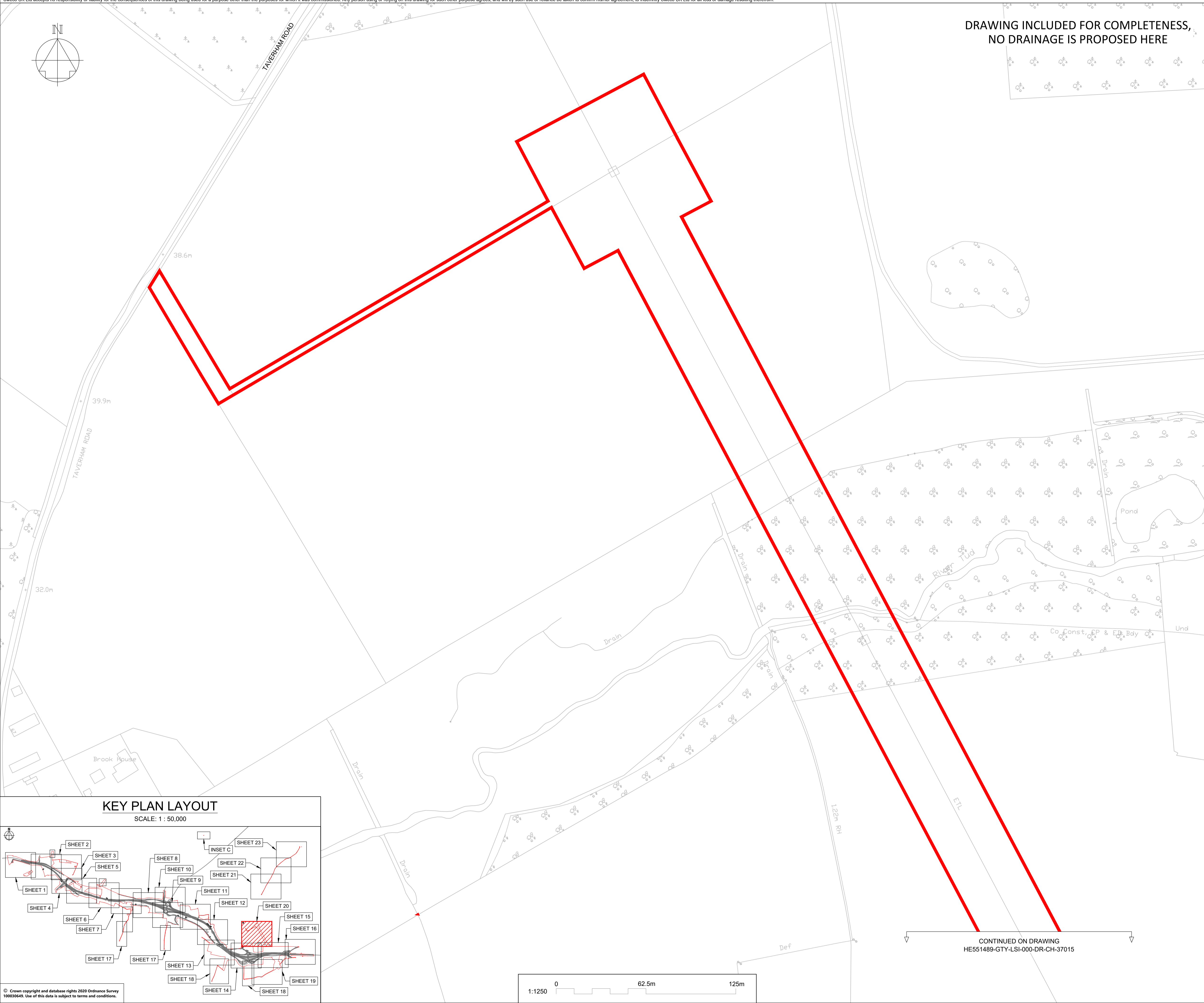
DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37019



KEY PLAN LAYOUT
SCALE: 1 : 50,000



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NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(U)

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER.

KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- ROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 20 OF 23

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37020

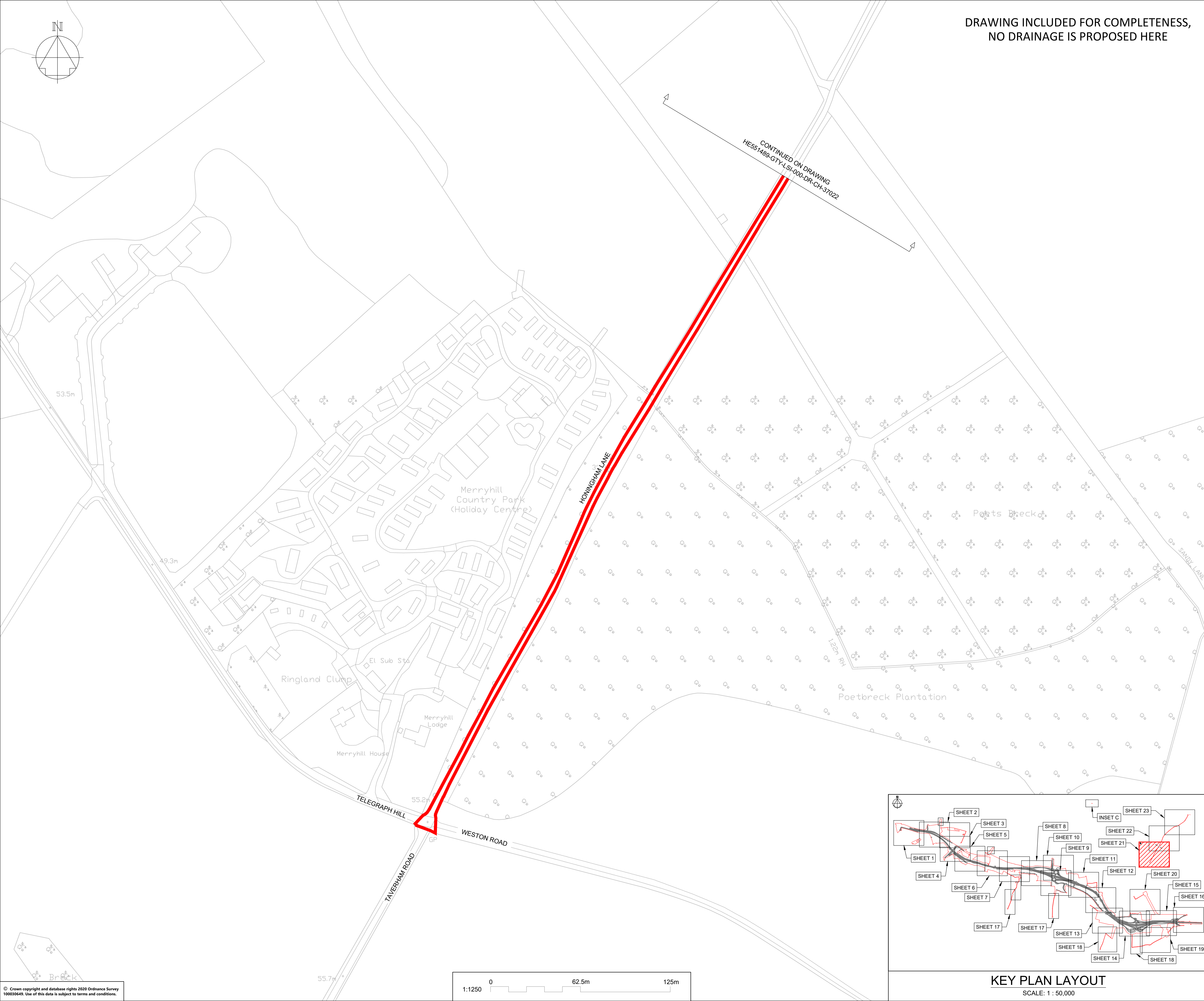
KEY PLAN LAYOUT
SCALE: 1 : 50,000

The key plan layout shows a series of sheets (SHEET 1 to SHEET 23) arranged along the project alignment. An inset labeled 'INSET C' is shown near SHEET 23. A red hatched area on SHEET 18 indicates the location of the current drawing. A north arrow is also present.

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CONTINUED ON DRAWING
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CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37022

NOTES	
Purpose of use FOR DCO SUBMISSION	
Development Consent Order Number / Document TR010038/APP/2.8(V)	
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.	
2. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER.	
KEY TO SYMBOLS	
	ORDER LIMITS
	SCHEME DESIGN
	AREA NOT INCLUDED IN ORDER LIMITS
	FILTER & LOWER CARRIER DRAINS
	CARRIER DRAIN
	COMBINED CARRIER & FILTER DRAIN
	OVERSIZED PIPES FOR ATTENUATION
	NARROW FILTER DRAIN / FIN DRAIN
	COMBINED KERB DRAIN
	MANHOLE / CATCHPIT
	KERB AND GULLY
	PROPOSED HEADWALL
	DRAINAGE DITCH FOR OVER THE EDGE PROVISION
	PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
	PRE EARTHWORKS FILTER DRAINS
	STRUCTURAL DECK DRAINAGE
	PRE EARTHWORKS DITCH CROSS DRAIN
	EXISTING SURFACE WATER BODIES
	RIVER TUD / WATERCOURSE
	CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
**highways
england**

PROJECT TITLE
**A47 NORTH TUDDENHAM TO
EASTON DULLING**

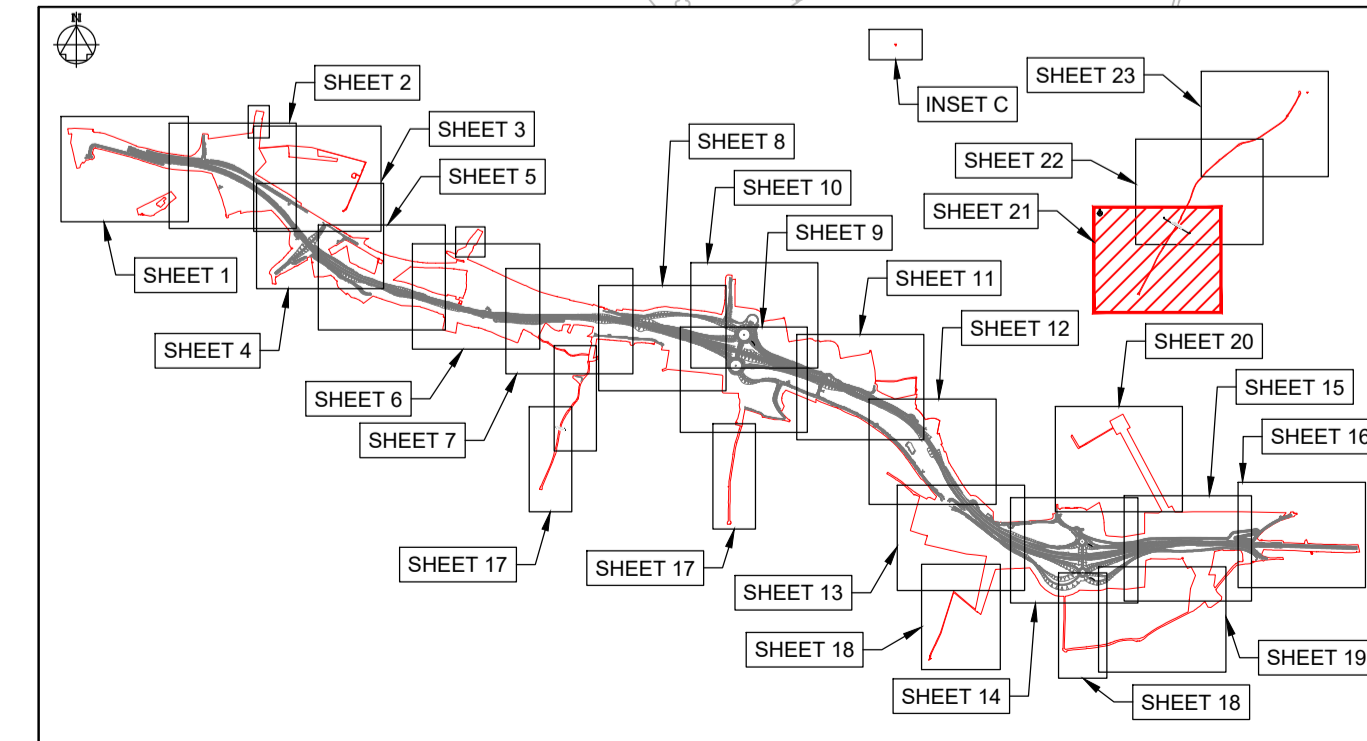
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
**DRAINAGE AND SURFACE WATER PLANS
REGULATIONS 5(4)
SHEET 21 OF 23**

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

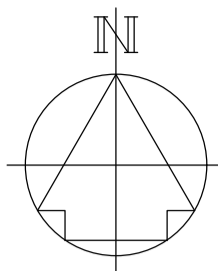
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A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37021

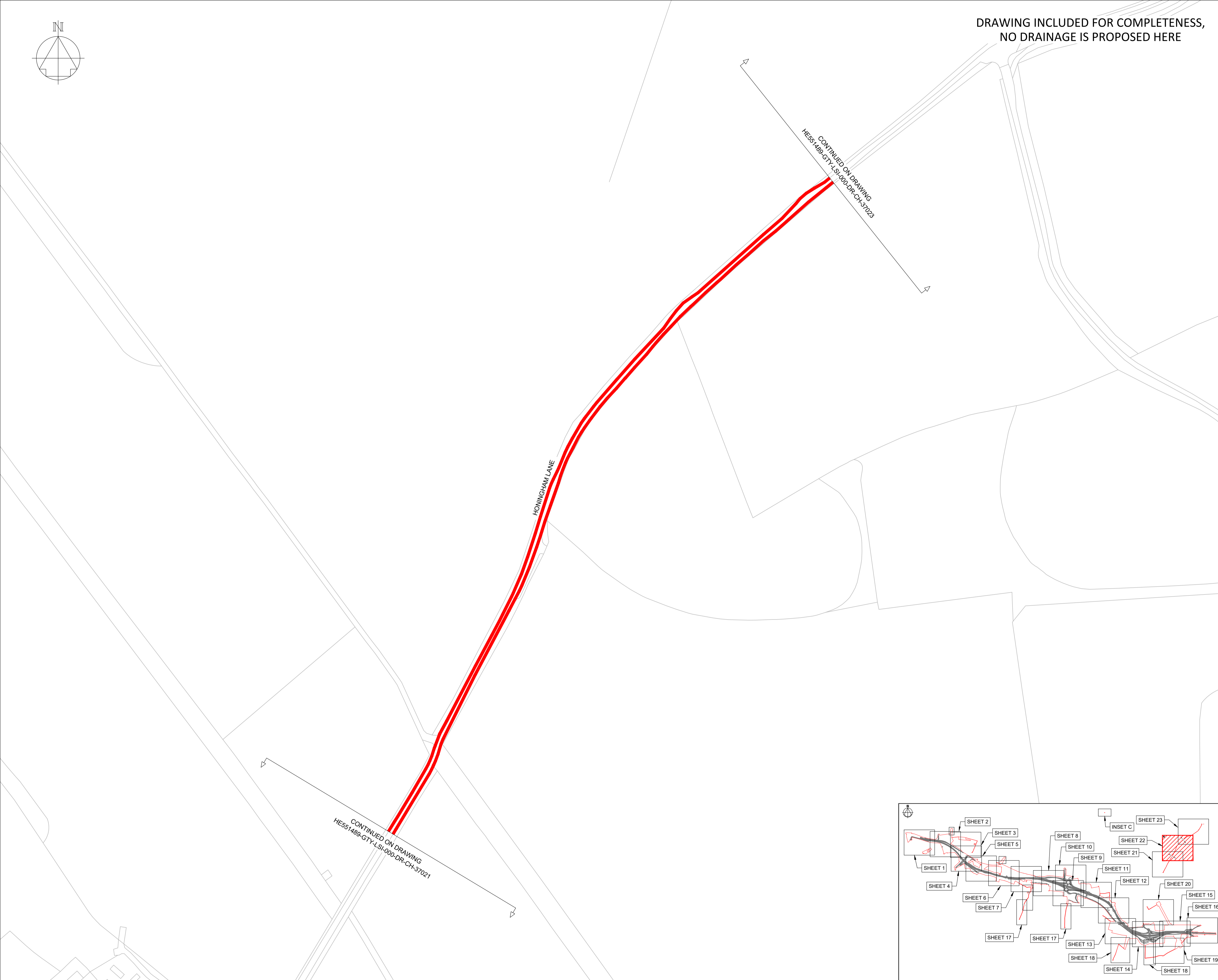


KEY PLAN LAYOUT
SCALE: 1 : 50,000

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NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(W)

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER.

KEY TO SYMBOLS

- ORDER LIMITS
- SCHEME DESIGN
- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
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- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
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- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
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- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPil	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPil	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRil	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRil	JHar	MR

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

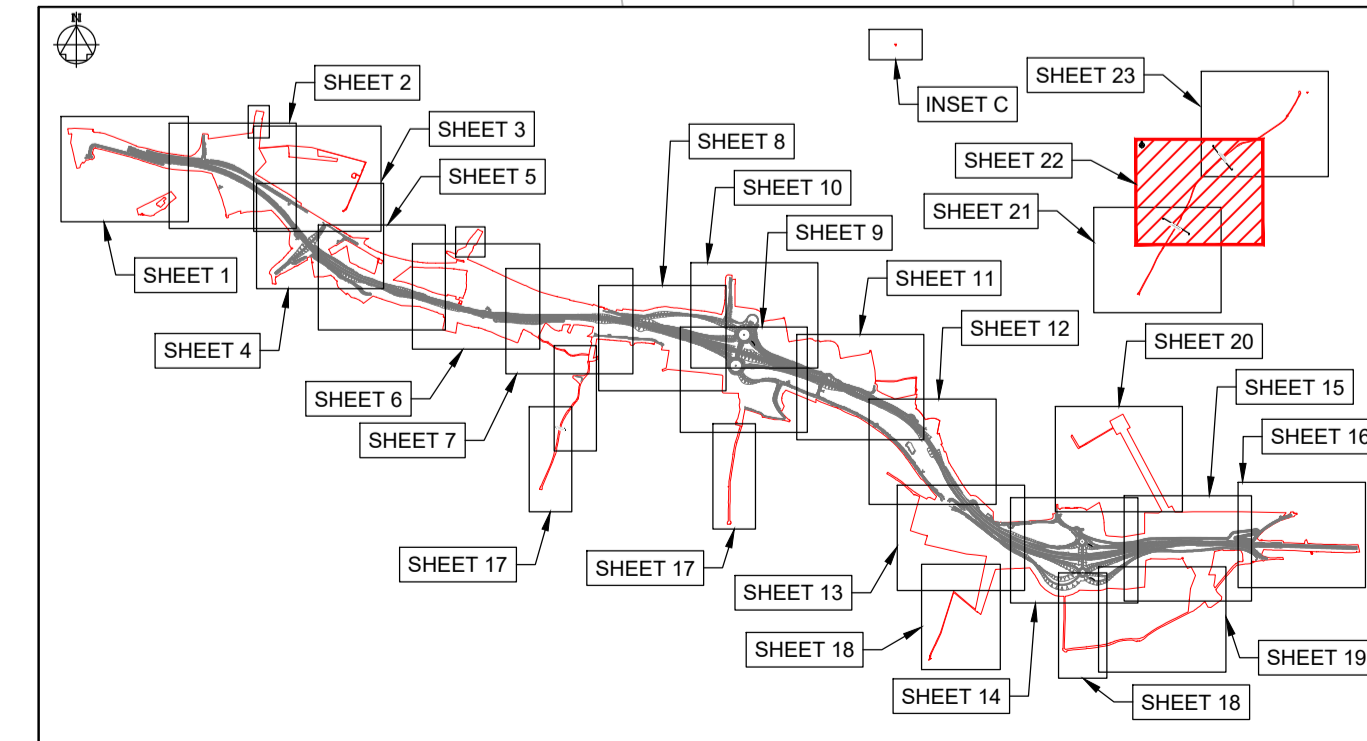
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
DRAINAGE AND SURFACE WATER PLANS REGULATIONS 5(4) SHEET 22 OF 23

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

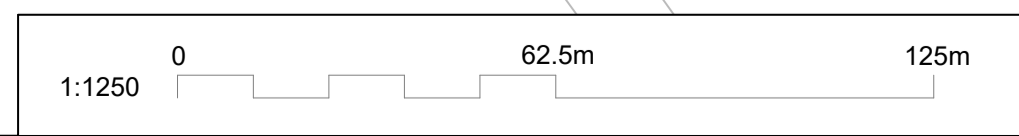
SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER
HE551489-GTY-LSI-000-DR-CH-37022

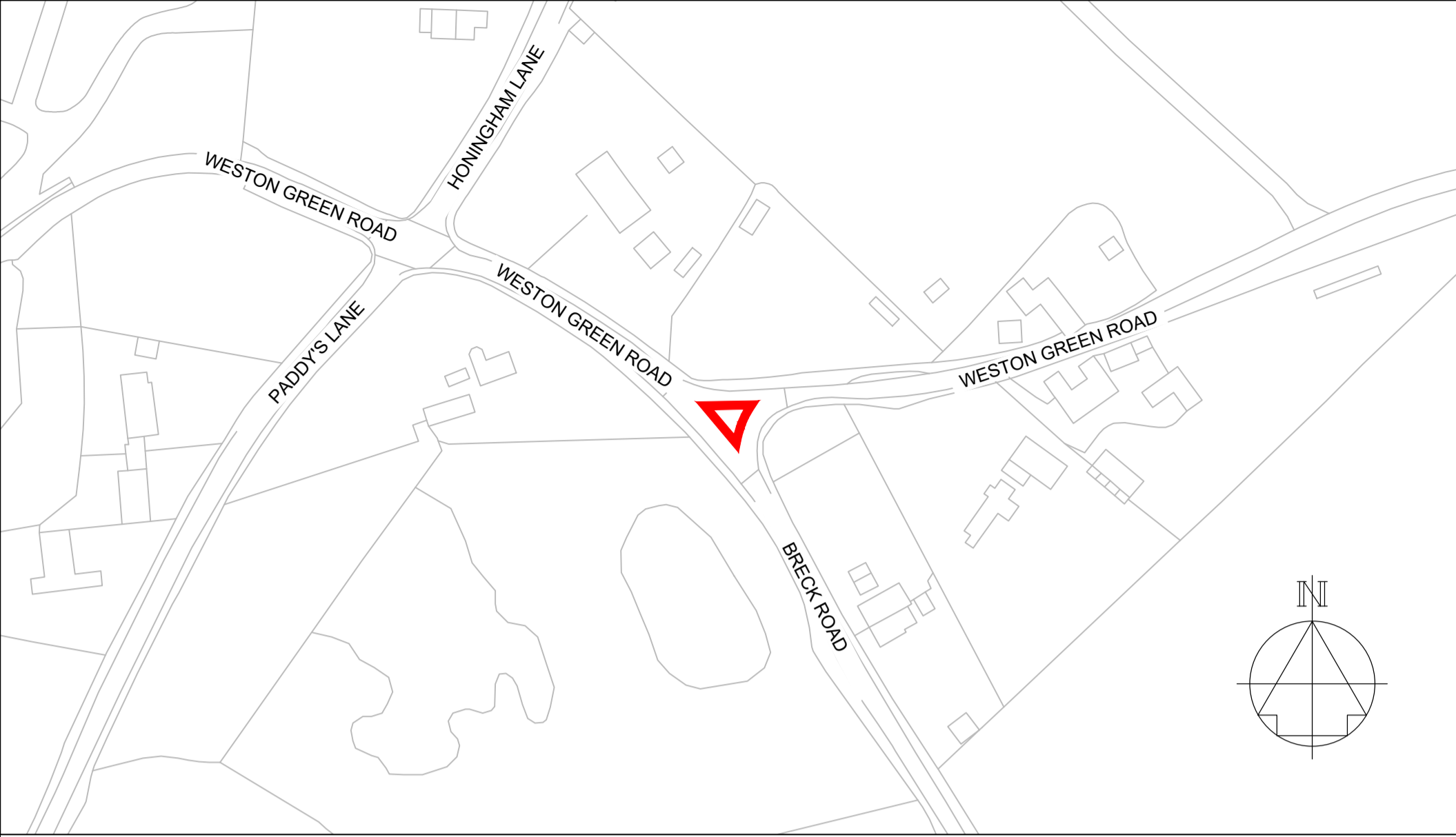


KEY PLAN LAYOUT
SCALE: 1 : 50,000

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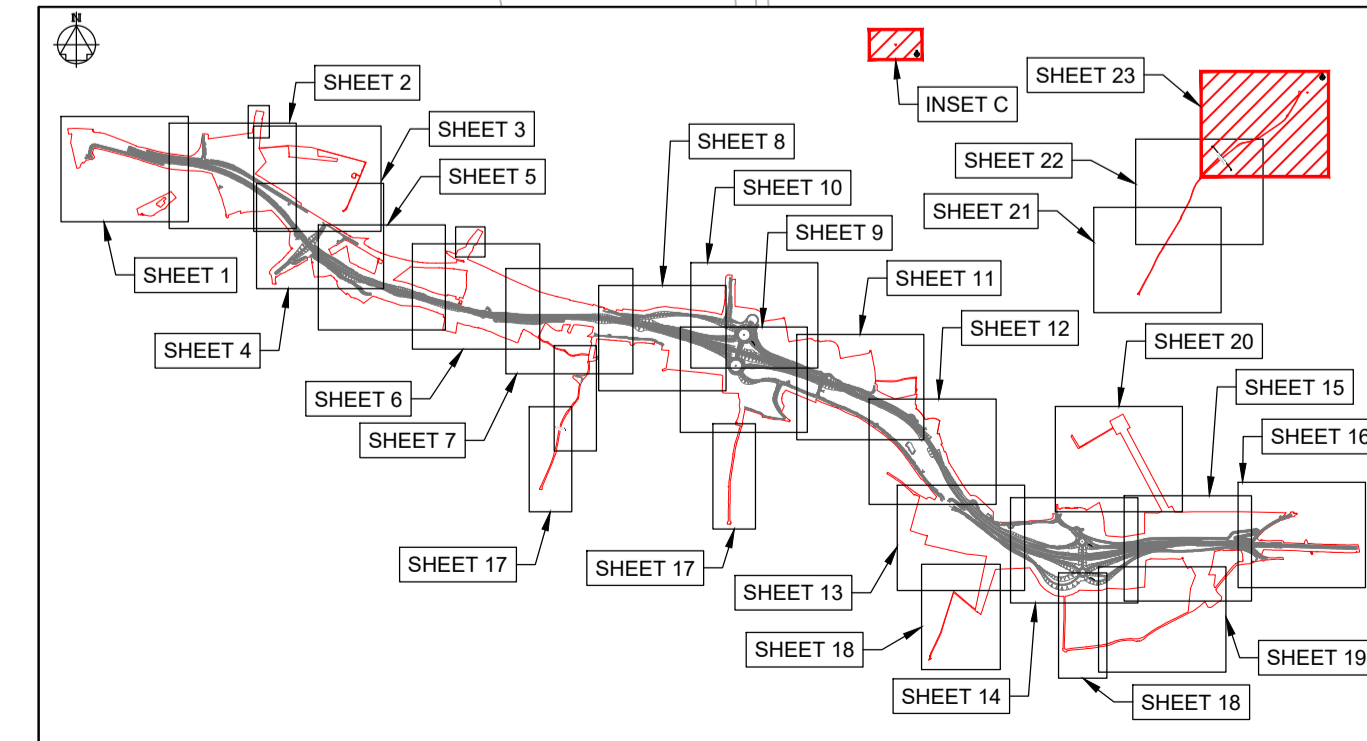
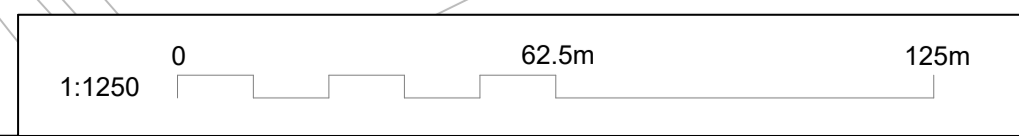


INSET C
SCALE: 1 : 1,250

**DRAWING INCLUDED FOR COMPLETENESS,
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CONTINUED ON DRAWING
HE551489-GTY-LSI-000-DR-CH-37022



KEY PLAN LAYOUT
SCALE: 1 : 50,000

NOTES

Purpose of use
FOR DCO SUBMISSION

Development Consent Order Number / Document
TR010038/APP/2.8(X)

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
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KEY TO SYMBOLS

- ORDER LIMITS
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- AREA NOT INCLUDED IN ORDER LIMITS
- FILTER & LOWER CARRIER DRAINS
- CARRIER DRAIN
- COMBINED CARRIER & FILTER DRAIN
- OVERSIZED PIPES FOR ATTENUATION
- NARROW FILTER DRAIN / FIN DRAIN
- COMBINED KERB DRAIN
- MANHOLE / CATCHPIT
- KERB AND GULLY
- PROPOSED HEADWALL
- DRAINAGE DITCH FOR OVER THE EDGE PROVISION
- PRE EARTHWORKS DITCH (NATURAL CATCHMENTS)
- PRE EARTHWORKS FILTER DRAINS
- STRUCTURAL DECK DRAINAGE
- PRE EARTHWORKS DITCH CROSS DRAIN
- EXISTING SURFACE WATER BODIES
- RIVER TUD / WATERCOURSE
- CULVERTS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/11/20	FIRST ISSUE	AKno	JHar	JHar
P02	01/12/20	FIRST ISSUE	DPII	JHar	JHar
P03	07/12/20	DESIGN UPDATE	DPII	JHar	JHar
P04	12/02/21	DESIGN UPDATED	KMcC	JMcC	MR
P05	25/02/21	DCO SUBMISSION	TRii	JHar	MR
C01	25/02/21	DCO SUBMISSION	TRii	JHar	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

**highways
england**

PROJECT TITLE

**A47 NORTH TUDDENHAM TO
EASTON DUALLING**

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

**DRAINAGE AND SURFACE WATER PLANS
REGULATIONS 5(4)
SHEET 23 OF 23**

SUITABILITY

AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER

HE551489-GTY-LSI-000-DR-CH-37023